	Contents		Bodies and Cavitie	es	
CV		SERIES	DESCRIPTION	BODY NO.	PAGE NO.
Check Valves		DADVED CTAN	IDADD DODICS AND CAVITICS		
\longrightarrow			IDARD BODIES AND CAVITIES 04 Size, 2 Way	DO4 0 *	DC7
SH			04 Size, 2 Way		
			04 Size, 3 Way		
Shuttle Valves			08 Size, 3 Way		
es te			08 Size, 4 Way		
LM			09 Size, 4 Way		
Load/Motor Controls			10 Size, 2 Way		
d/M Cont			10 Size, 2 Way, "T" Body		
rols			10 Size, 3 Way		
FC			10 Size, 3 Way, Short		
			10 Size, 4 Way		
Flow Controls			11 Size, 3 Way		
at Po			12 Size, 2 Way		
\longrightarrow			12 Size, 3 Way		
PC			12 Size, 3 Way, Long		
۵ <u>۲</u>			12 Size, 4 Way		
Pressure Controls			12 Size, 4 Way, Long		
sle Jre			16 Size, 2 Way		
LE			16 Size, 3 Way		
_			16 Size, 3 Way, Short		
Logic Elements			16 Size, 4 Way		
.ogic			20 Size, 2 Way		
DC			20 Size, 3 Way, Short		
Directional Controls		COUNTERBAL	ANCE CAVITIES AND BODIES		
ation			Single and Dual Counterbalance Bodies	MHC-010-*	BC30
ऊँ ह			Single and Dual Counterbalance Bodies		
MV			Single and Dual Counterbalance Bodies		
< 3			Single and Dual Counterbalance Bodies		
Manual Valves		PILOT PISTON	I CAVITIES		
sv			10 Size Cavity for Single Check and Pilot Piston		BC34
			16 Size Cavity for Single Check and Pilot Piston		
V			10 Size Cavity for Dual Check and Pilot Piston		
Solenoid Valves			16 Size Cavity for Dual Check and Pilot Piston		
PV		STANDARD CA	AVITY PLUGS		
ropor					BC35
Proportional Valves		CARTPAK BOI	DIES		
CE			P Port Interrupt, 2-Way, Body Only	BD03-PN-*	BC36
표			P Port Interrupt, 2-Way, Body Only		
Coils & Electronics			P Port Interrupt, Reducing Function, Body Only		
ils &			P Port Interrupt, Sequencing Function, Body Only		
			P to T, Body Only		
ВС			A and B Port Interrupt, Body Only		
G:			A and B Port Crossover, Body Only		
Bodies & Cavities			A and B Ports to Tank, Body Only		
% &			Ports A and B Drain to Crossover Port, Body Only		
TD			B Port Drain to A, Body Only		
급			A Port Drain to B, Body Only		
Technical Data					



Contents

Bodies and Cavities

SERIES	DESCRIPTION	BODY NO.	PAGE NO.
SPECIAL BODI	IES AND CAVITIES		
CAV0W-2	2 Port	LB1079*	BC47
CAVSW-3	3 Port	LB1081*	BC48
CAVT11A	3 Port or 4 Port Dual	LB1082*	BC49
CAVT21A	4 Port	LB1083*	BC50
2C	2 Port	LB1021*	BC51
2G	2 Port	LB1032*	BC52
2R	2 Port	LB105**	BC53
2U	2 Port	LB102**	BC54
2X	2 Port	LB1051*	BC55
3A	3 Port	LB100**	BC56
3C	3 Port or 4 Port Dual	LB100**	BC57
3J	3 Port	LB1009*	BC58
3K	3 Port		BC59
3M	3 Port or 4 Port Dual	LB100**	BC60
3X	3 Port	LB1055*	BC61
3Z	3 Port	LB103**	BC62
4C	4 Port	LB1056*	BC63
5A	5 Port	LB103**	BC64
53-1	3 Port or 4 Port Dual	LB1031*	BC65
54-1	3 Port	LB10591	BC66
68-1	3 Port or 4 Port Dual	LB102**	BC67
91-1	3 Port	LB1015*	BC68
100-1	5 Port	LB1031*	BC69

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SH

Load/Motor T Shuttle Controls M Valves

Flow Controls O

Pressure Controls

Logic T Elements T

Directional Controls

MV = 0

d S Manual Valves

Solenoid

Proportional **A**Valves **A**

Coils & **O** Electronics **B**

ies & B ities OB

Technical **A** Bodies & Data **G** Cavities



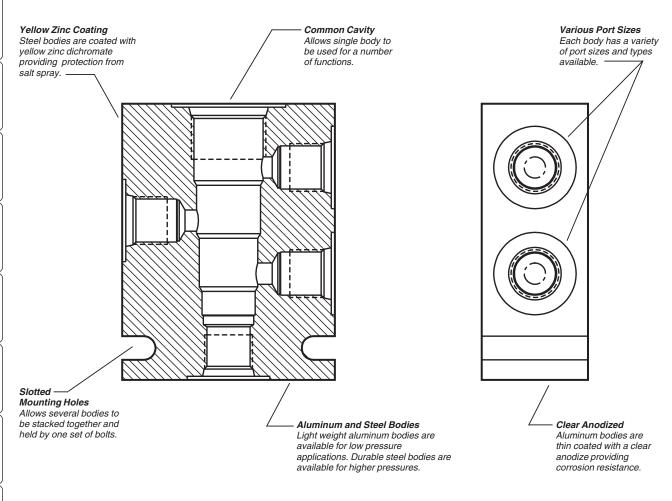
PV

INTRODUCTION

This Technical Tips section is split into three parts; Standard Line Bodies, Cavities, and Cartpaks. In the standard line bodies section, we highlight the features and options of our standard offering of line bodies. In the cavity section we discuss "common" cavities and form tools. In the Cartpak section, we present the features and options to Parker's line of D03 style sandwich bodies. The Technical Tips are provided to help you become more familiar with Parker Hannifin's line of product and assist you in applying our product.

STANDARD LINE BODIES

Parker offers standard line bodies for each valve and cavity size. Below are some of the features of Parker's standard line bodies.



COMMON OPTIONS & FEATURES

Aluminum vs. Steel: Parker offers standard line bodies in both aluminum and steel. Aluminum bodies are most often used for general applications. They are lightweight and less costly than steel bodies. Parker's aluminum bodies are coated with a clear anodize to provide a corrosion resistant protection. Aluminum bodies should never be used in applications above 210 bar (3000 psi.) Steel bodies are more durable and

heavier than aluminum bodies. They are ideal for applications with elevated pressures or where rugged construction is desired. Steel bodies are suitable for applications up to 350 bar (5000 psi.) Parker's steel bodies are coated with yellow zinc dichromate providing corrosion resistance. Yellow zinc dichromate even provides the steel body many hours of protection from salt spray.



Bodies and Cavities

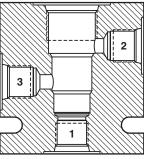
COMMON OPTIONS & FEATURES (Cont.)

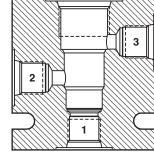
Pressure Drop: The pressure drop through a line body is fairly minimal. Each catalog page shows a pressure drop curve. This should be added to the pressure drop through the cartridge when trying to estimate total pressure drop for a function.

Porting: Parker offers a variety of port sizes and types for each line body. While NPT or pipe ports were once very popular and are still offered, we recommend SAE ports for new applications. SAE ports and fittings provide a more secure connection than pipe ports. BSPP ports are also available.

Port Numbering Change: With this catalog, we have re-numbered the ports on our 3-way line bodies. In the past, three way bodies were numbered with the nose

being port 1, the middle port labeled (3), and the top port labeled (2). Over the years, this has caused some confusion, so we have relabeled the ports sequentially from the bottom. For identification, the current design will be marked with a Parker symbol like the one shown.





Previous Design

Current Design

CAVITIES

The hole that the cartridge valve is screwed into is called a cavity. Many cartridge producers manufacture valves that fit a "common" cavity. With a "common" cavity, a valve theoretically could be removed from a cavity and replaced by another manufacturer's product. One should be careful though to check cross drill ports and thread depths when pursuing this activity. While it is true that many manufacturer's products fit inside another's cavity, the cross drills sometimes expose an o-ring to pressure, causing the o-ring to be extruded.

BC2

Valve / Cavity Compatibility Chart: Through acquisition, Parker Hannifin has accumulated a number of manufacturers with "common" cavities. To accommodate all of our product lines, we have released a new cavity for our Winner's Circle product line. The cavities shown in this catalog are considered Winner's Circle Cavities. The Winner's Circle valves are downward and upward compatible with the Parker Series of product. On each catalog page, you will find a chart like the one shown on this page. The purpose of this chart is to help identify if a valve from one acquisition can be replaced by the Winner's Circle valve, or another acquisition. The valves are designated by the columns of the chart and the cavities by the rows. If you have an existing cavity, you find it on the chart and follow across to see which valves you may put in the cavity. For instance, using the chart below, let's say you have an existing manifold in which you had manufactured a FPS cavity (maybe you were using a SV2A-10). By finding the row labeled FPS and following across, you find that you could use the new Winner's Circle product, an FPS product, or a CEC product of the same size in this cavity. A Parker or Waterman valve will not fit in this cavity without modifying the cavity. This chart is provided to help you in converting to the Winner's Circle product line.

			V	ALV	Æ	
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	X	Х	Х	Х
≥	Parker	Х	X	Х		
CAVITY	Waterman	х	Х	Х		
CZ	FPS	Х			Х	Х
	CEC	Х			Х	Х

Cavity Tools: On each catalog page, cavity tools are listed for your use in creating special manifolds. More is discussed on manifold construction in the Technical Data section of this catalog. For 3-way and 4-way valves, you will find a roughing and a finishing tool. The rougher is a step drill used to prep the cavity for the finishing tool. The rougher removes the mass of material and is necessary because the finisher is not designed for primary forming. The finisher is a precision tool used to provide the final dimensions of the cavity. No rougher is offered for 2-way cavities because a standard drill bit can be used to remove the mass of material.

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Coils & O

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LM Load/Motor Controls

Flow Controls PC

Pressure E





Manual Valves

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PV



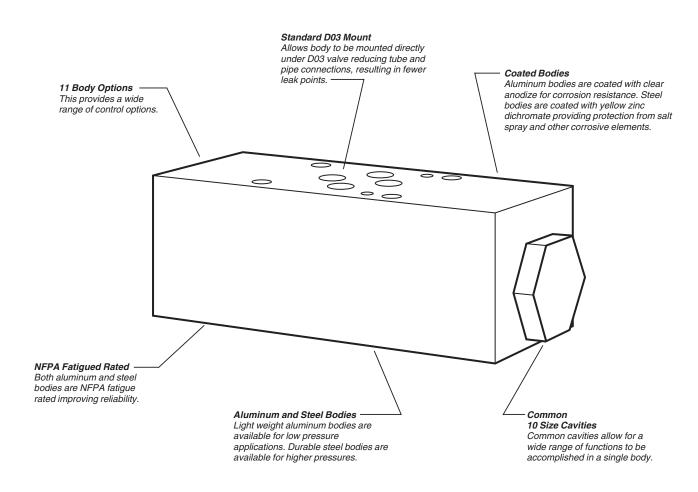






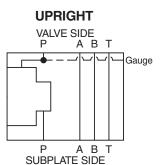
CARTPAK BODIES

Parker Cartpak sandwich mounted bodies are designed to be mounted under a standard ISO 4401-03, NFPA D03, CETOP 3 size valve, and provide a multitude of different functions. The bodies are designed to accept a common 10 size cartridge valve allowing the designer the flexibility to use a single body to provide pressure, directional, flow, or load control. One or more Cartpak bodies may be "sandwiched" underneath a Parker D1 Series directional valve to provide the control functions for all portions of a hydraulic circuit. The ISO standard fatigue rated bodies are available in either aluminum or ductile iron.



Catalog Pages: Each Cartpak catalog page is laid out in a similar format and is designed to help you select

the proper body for your application. In the top left corner of the page there is a brief description and body schematic. The body schematic shows the cartridge cavity and the ports connecting to it. This schematic can be used to understand which valves can be used in the body. For instance, in the



example shown here, flow from the subplate in port P is directed into the nose of the cartridge. The side port

of the cartridge is connected to the valve side of port P. Thus, you want to choose cartridges providing the function desired, and use the nose as the inlet. For instance, a FC101 meters flow from its nose port to its side port and would be ideal for the p-port interrupt body shown.

Technical Tips

In addition to the body schematic, we also provide a hydraulic schematic at the bottom of each catalog page. This schematic shows a variety of Parker cartridge part numbers that can be used with this body. This list is not intended to be comprehensive, but it is intended to show the wide variety of options that can be achieved with each body. You will also note, the product listing shows the orientation of the block (upright or inverted), the cavity for the cartridge, and cavity plugs (when necessary.) Once again, many options can be achieved with each body.

O-Ring Plates: Since many of the Cartpak bodies can be "flipped" to achieve extra functions, the faces of the bodies must be flat. Thus, an o-ring plate with o-rings must be used to seal the mounting surface. One plate with o-rings will be provided with any body that can be inverted. Below are the kit numbers:

Nitrile Kit - 717939 Fluorocarbon Kit - 717939V

Flipping Cartpaks: As mentioned before, many Cartpak bodies can be flipped to create extra options. The catalog pages show some of the functions that can be achieved by "flipping." The words "upright" and "inverted" are written on the bodies to help you identify which side you are looking at. To invert the body, while facing the long face of the body (in other words, the sides without any ports or cavities), rotate the valve 180 degrees away from your body in an upward fashion. By doing this, you have essentially switched the P port and T port.

Stacking Cartpaks: Cartpak bodies can be stacked on top of one another to provide a number of functions in a single assembly. When stacking Cartpak bodies though, you want to take some care in the order in which the bodies are stacked. In general, flow controls should be stacked as close to the subplate stack as possible, while pilot operated check valves or counterbalance valves should be stacked as close to the D03 valve as possible.

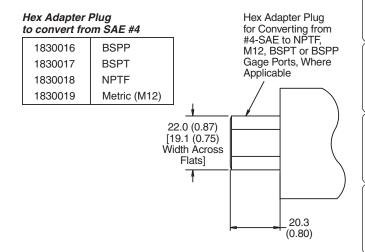
The D03 line of bodies has a common height of 40mm (1.58 in.). Below is a list of bolt kits available from Parker.

UNC Bolt Kits for use with D1V Directional Control Valves & Manapaks/Cartpaks (D1V*-75 Design, Solenoid Operated)						
	Number of Manapaks/Cartpaks @ 1.58" (40mm) thickness					
	0	1	2	3	4	
D1V-75	BK209 1.25"	BK243 2.88"	BK225 4.38"	BK244 6.00"	BK245 7.50"	
D1V-75 Plus Tapping Plate	BK176 2.25"	BK56 3.81"	BK212 5.38"	BK107 7.00"	BK106 8.50"	

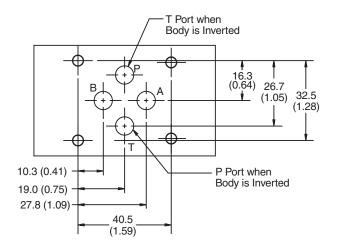
Note: All bolts are SAE grade 8, 10-24 UNC-2A thread, torque to 5.6 N.m. (50 in.-lbs.)

Bodies and Cavities

Gauge Ports: Several of the Cartpak bodies are equipped with a SAE #4 gauge port to assist the user during installation and troubleshooting. We offer hex adapter plugs, should your pressure gauge have a different thread type.



D03 Pad Dimensions: Below is the common dimensions of the standard D03 mount pad. Since these dimensions are common to all Cartpak bodies, we do not identify them on the individual valve pages.



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Flow Controls

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LE g

DC

Directional

Manual Valves

SV

Proportional **A** S
Valves **A** V

oils & O

lies & B

unical **DT**



CV

Check Valves

SH

Shuttle Valves LM

Load/Motor Controls FC

Flow Controls PC Pressure Controls

LE

Logic Elements DC

Directional Controls MV

Manual Valves SV

Solenoid Valves PV Proportional Valves

CE Coils & Electronics

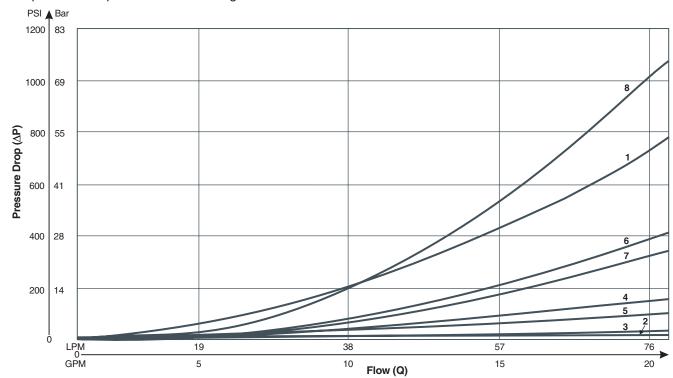
ВС

TD Technical Data

PRESSURE DROP CHART

The following charts outline the pressure drop through the Parker Cartpak bodies.

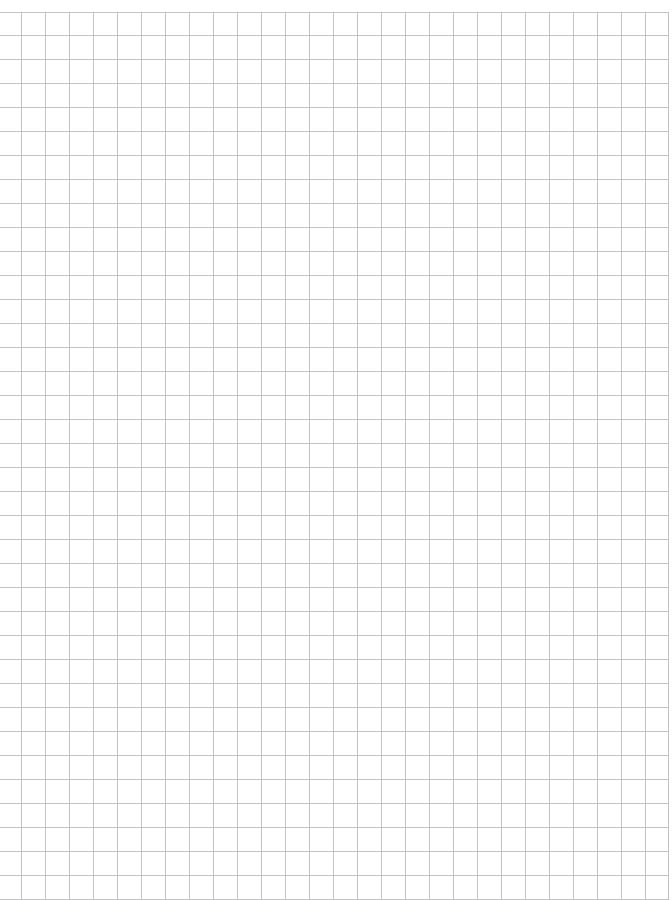
The pressure drop is minus the cartridge valve.



Body	Orientation	Р	Т	Α	В
BD03-PN	Upright Inverted	1 2	2 1	3 3	3 3
BD03-PT	Upright Inverted	3 3	3 3	3 3	3 3
BD03-ABN	Upright Inverted	3 3	3 3	4 4	4 4
BD03-ABT	Upright Inverted	3 3	3 3	3 3	3 3
BD03-ABX	Upright	5	5	3	3
BD03-PNR	Upright	6	3	3	3
BD03-PNS	Upright	7	3	3	3
BD03-DDX	Upright	3	3	1	1
BD03-BDA	Upright	6	3	3	3
BD03-ADB	Upright	6	3	3	3
BD03-PN2	Upright Inverted	8 3	3 8	3 3	3 3

Notes

Bodies and Cavities



BC6



Pressure Controls

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D Logic Elements

MV

Proportional **A** Valves

Coils & D Electronics **E**

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CV

Check Valves

SH

Shuttle Valves

LM Load/Motor Controls

FC

Flow Controls PC

Pressure Controls LE

Logic Elements DC Directional Controls

MV Manual Valves

SV Solenoid Valves PV

Proportional Valves CE Coils & Electronics

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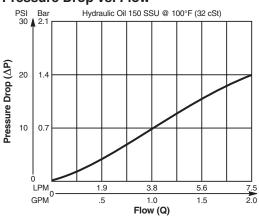
Valve/Cavity Compatibility

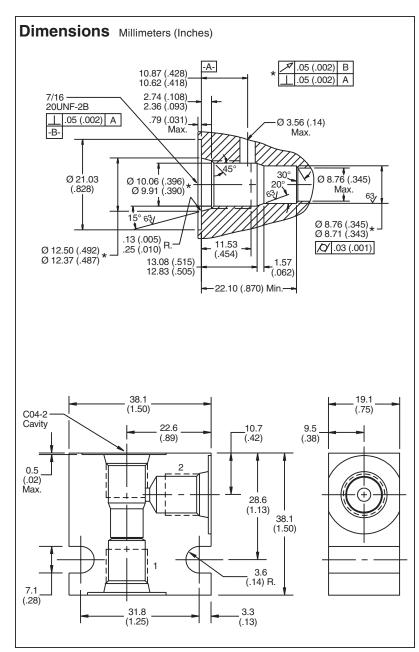
For additional information see Technical Tips on pages BC1-BC6.

			V	4LV	/E	
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	Х	Х		
≥	Parker	х	Х	Х		
CAVITY	Waterman	Х	Х	Х		
S	FPS					
	CEC					

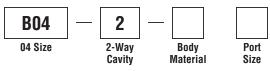
Performance Curve

Pressure Drop vs. Flow





Ordering Information



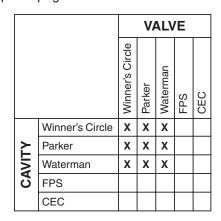
Code Body Mater	iui
Omit Steel	
A Aluminum	

Code	Port Size
4T	SAE - 4

Form Tool: Rougher None Finisher NFT04-2F Weight: .07 kg (.15 lbs.)

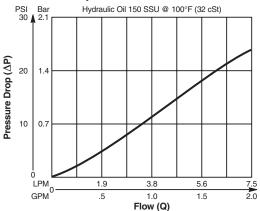
Valve/Cavity Compatibility

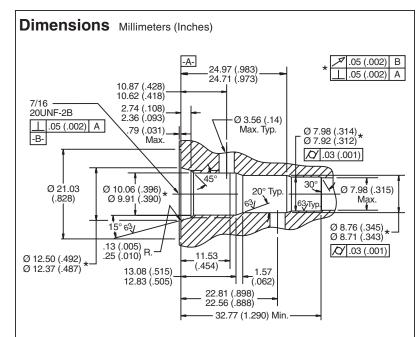
For additional information see Technical Tips on pages BC1-BC6.

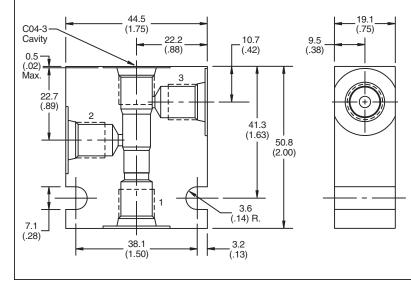


Performance Curve

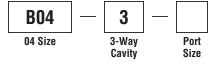
Pressure Drop vs. Flow







Ordering Information



Code	Port Size	
A4T	SAE-4	
A4T aluminum only.		

Form Tool: Rougher NFT04-3R

Finisher NFT04-3F Weight: .10 kg (.23 lbs.)

BC8

Check Valves

CV

Shuttle Valves

Load/Motor Controls

Flow Controls

LE

DC

MV

Manual Valves

Solenoid Valves

PV Proportional Valves

CE Coils & Electronics

BC

TD

CV

Check Valves

SH

Shuttle Valves

LM Load/Motor Controls

FC

Flow Controls PC

Pressure Controls LE

Logic Elements DC

Directional Controls MV

Manual Valves SV

Solenoid Valves PV Proportional Valves

CE Coils & Electronics

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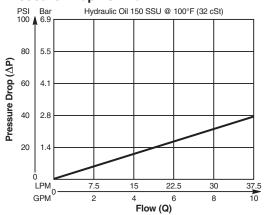
Valve/Cavity Compatibility

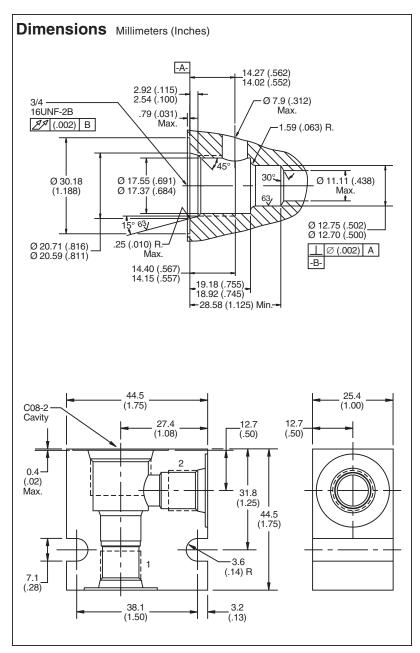
For additional information see Technical Tips on pages BC1-BC6.

			V	٩LV	Æ	
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	Х	Х	Х	Х
≥	Parker	Х	Х	Х	Х	Х
CAVITY	Waterman	Х	х	Х	Х	х
2	FPS	X	Х	Х	X	х
	CEC	Х	Х	х	Х	х

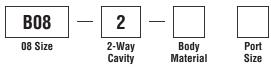
Performance Curve

Pressure Drop vs. Flow





Ordering Information



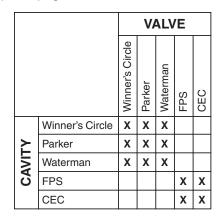
Body Material
Steel
Aluminum

Code	Port Size
4P	1/4" NPTF
6P	3/8" NPTF
4T	SAE - 4
6T	SAE - 6
6B	3/8" BSPG

Form Tool: Rougher None Finisher NFT08-2F Weight: .11 kg (.25 lbs.)

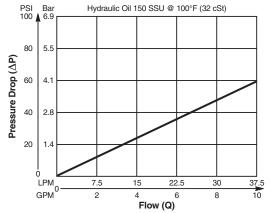
Valve/Cavity Compatibility

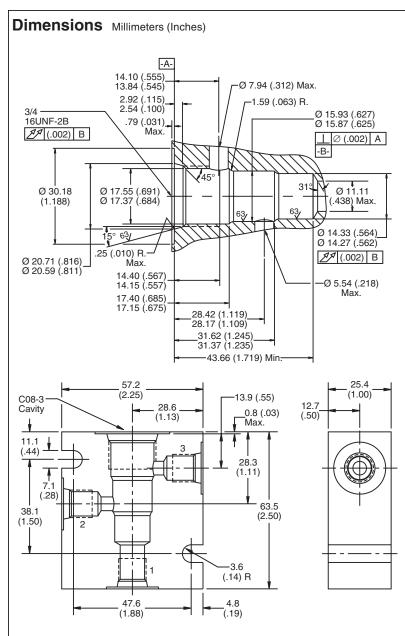
For additional information see Technical Tips on pages BC1-BC6.



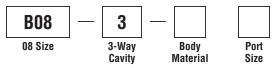
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

Code	Port Size
4P	1/4" NPTF
4T 6T	SAE - 4 SAE - 6
6B	3/8" BSPG

Form Tool: Rougher NFT08-3R Finisher NFT08-3F Weight: .27 kg (.60 lbs.) CV

Check Valves

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Bodies & Cavities

Technical Data



CV

Check Valves

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Shuttle Valves

LM Load/Motor Controls

FC

Flow Controls PC

Pressure Controls LE

Logic Elements DC

Directional Controls MV

Manual Valves SV

Solenoid Valves

PV

Proportional Valves CE Coils & Electronics

BC

TD

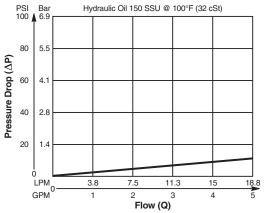
Valve/Cavity Compatibility

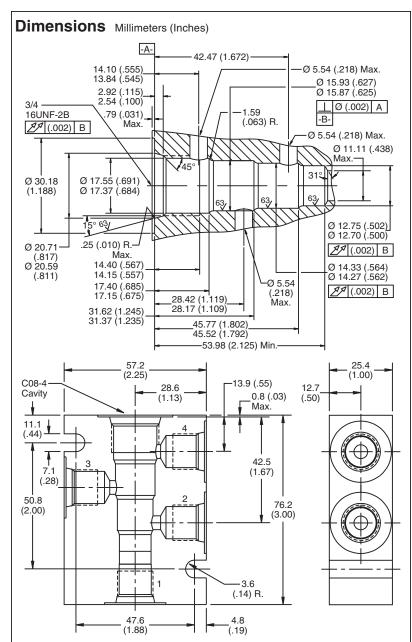
For additional information see Technical Tips on pages BC1-BC6.

			V	٩L\	/E	
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	Х	Х		
≥	Parker	х	х	Х		
CAVITY	Waterman	Х	х	Х		
S	FPS				Х	
	CEC					

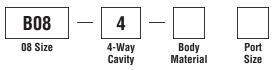
Performance Curve

Pressure Drop vs. Flow





Ordering Information



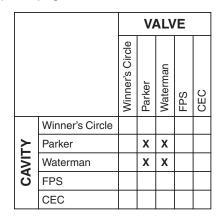
Body Material
Steel
Aluminum

Code	Port Size
4T 6T	SAE - 4 SAE - 6
6B	3/8" BSPG

Form Tool: Rougher NFT08-4R Finisher NFT08-4F

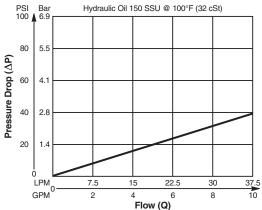
Valve/Cavity Compatibility

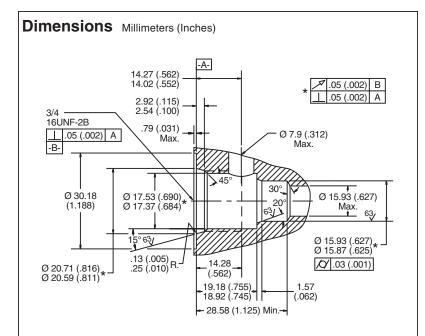
For additional information see Technical Tips on pages BC1-BC6.

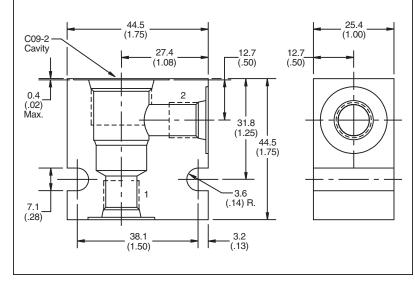


Performance Curve

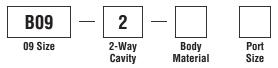
Pressure Drop vs. Flow







Ordering Information



Body Material
Steel
Aluminum

Code	Port Size			
6T	SAE - 6			
6B†	3/8" BSPG			
† Steel	† Steel body only.			

Form Tool: Rougher None Finisher FT09-2
Weight: 11 kg (.25 lbs.)

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Check Valves

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Shuttle

Load/Motor M Controls M

Flow Controls (

PC so

LE

DQ Logic

Direction Controls

MV

SV

Proportional **A** Valves

Coils & O

ВС

Bodies & Cavities

Technical **T** Data



CV

Check Valves

SH

Shuttle Valves

L Controls

FC

Flow Controls PC

Pressure Controls

Logic Directional Controls

MV Manual V

Solenoid Valves

Proportional La Coils & Valves C Electronics

B Cavities

T Technical Data

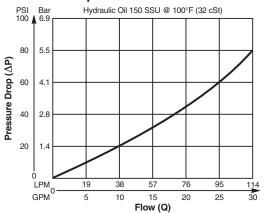
Valve/Cavity Compatibility

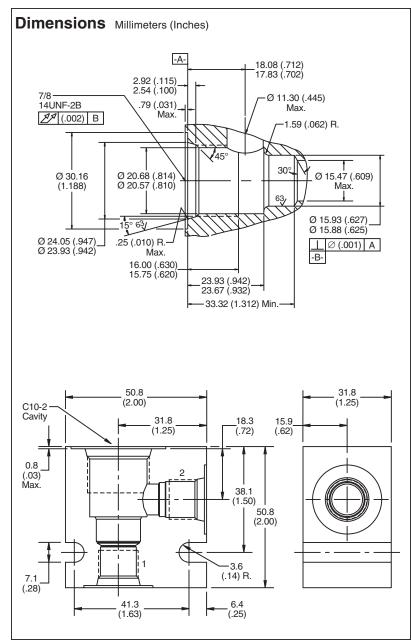
For additional information see Technical Tips on pages BC1-BC6.

VALVE						
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	Х	Х	Х	Х
≥	Parker	Х	Х	Х		
CAVITY	Waterman	Х	Х	Х		
S	FPS	X			Х	Х
	CEC	х			Х	х

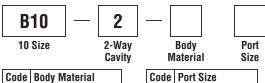
Performance Curve

Pressure Drop vs. Flow





Ordering Information



		· .			
Code	Body Material		Code	Port Size	
0mit	Steel		4P	1/4" NPTF	
Α	Aluminum		_	3/8" NPTF	
				1/2" NPTF	
			6T 8T	SAE - 6 SAE - 8	
			•		
			6B†	3/8" BSPG	

† Steel body only.

Form Tool: Rougher None

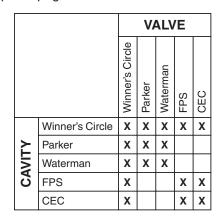
Finisher NFT10-2F

Weight: .45 kg (1.0 lbs.)



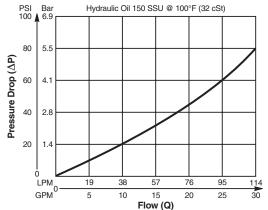
Valve/Cavity Compatibility

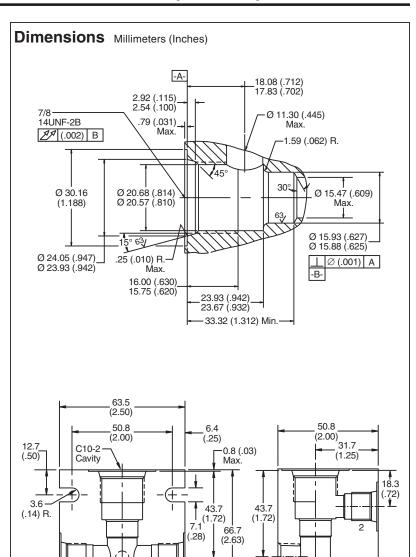
For additional information see Technical Tips on pages BC1-BC6.



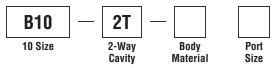
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material
Omit	Steel

Code	Port Size
T6T T8T	SAE - 6 SAE - 8

Form Tool: Rougher None

31.8 (1.25)

Gauge Port 1/4" NPT

BC14

Finisher NFT10-2F

Weight: 1.4 kg (3.0 lbs.)

Load/Motor Controls Flow Controls

CV

LE

DC Directional Controls

MV Manual Valves

PV Proportional Valves

CE Coils & Electronics

BC

CV

Check Valves

SH

Shuttle Valves

LM Load/Motor Controls FC

Flow Controls PC

Pressure E Controls

Logic Directional Controls

Manual Valves S

MV

Solenoid Proportional Valves Public Valves

C Electronics

B Cavities

Technical Data

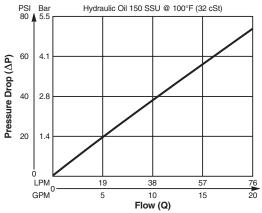
Valve/Cavity Compatibility

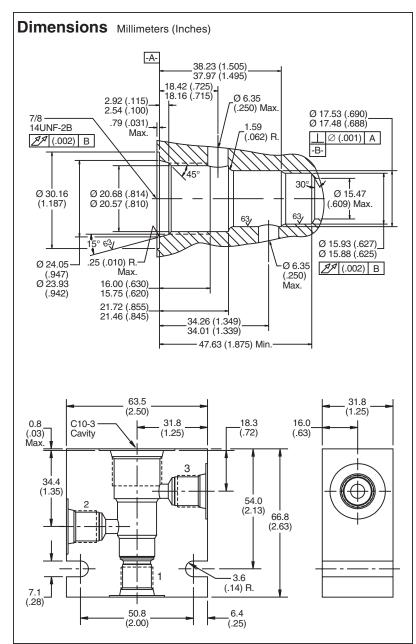
For additional information see Technical Tips on pages BC1-BC6.

		VALVE				
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	Х	х	Х	Х
≥	Parker	х	х	Х	Х	х
CAVITY	Waterman	Х	Х	Х	Х	Х
CA	FPS	X	Х	Х	Х	Х
	CEC	Х	Х	х	Х	Х

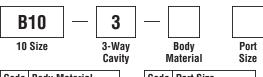
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material	Code	Port Size
0mit	Steel	4P	1/4" NPTF
Α	Aluminum	6P 8P	3/8" NPTF 1/2" NPTF
		_	SAE - 6 SAE - 8
		6R+	3/8" BSPG

† Steel body only.

8B

1/2" BSPG

Form Tool: Rougher NFT10-3R

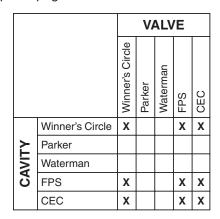
Finisher NFT10-3F

Weight: .77 kg (1.7 lbs.)



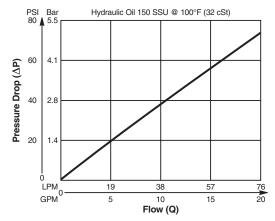
Valve/Cavity Compatibility

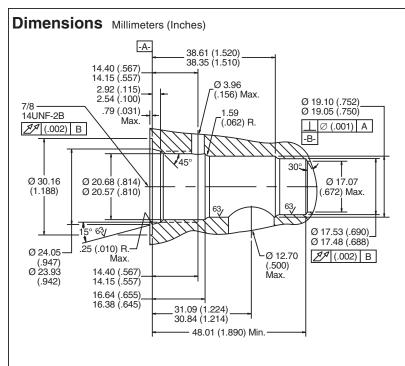
For additional information see Technical Tips on pages BC1-BC6.

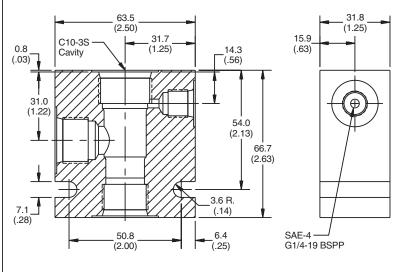


Performance Curve

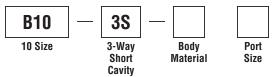
Pressure Drop vs. Flow







Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

Code	Port Size
6T	SAE - 6
8T	SAE - 8
6B	3/8" BSPG
8B	1/2" BSPG

Form Tool: Rougher NFT10S-3R

Finisher NFT10S-3F

Weight: .77 kg (1.7 lbs.)

CV Sav

Check Valves

> Shuttle Valves

Load/Motor **T** Controls **W**

Flow Controls

PC

Pressure Controls

Logic Elements

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MV

Manual Valves

Solenoid Ad Valves

Proportional Nalves

Coils & Electronics

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CV

Check Valves

SH

Shuttle Valves

Load/Motor Controls

FC

Flow Controls PC

Pressure Controls

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Logic C Directional Elements C Controls

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S Solenoid Valves

PV

Proportional Valves C Electronics

B Cavities

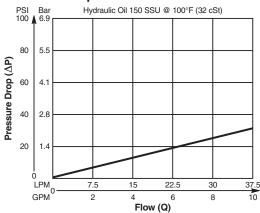
TD Tech Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.

			V	4LV	/E	
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	Х	Х	Х	Х	Х
≥	Parker	Х	Х	Х	Х	Х
CAVITY	Waterman	Х	х	Х	Х	х
2	FPS	X	Х	Х	X	х
	CEC	Х	Х	Х	Х	х

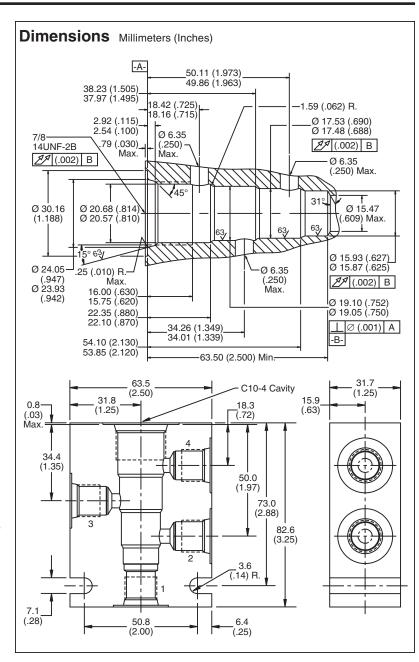
Performance Curve

Pressure Drop vs. Flow

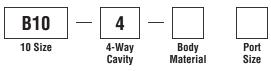


NOTE:

When machining for use with DF102P, Ports 1 and 4 must be connected in the manifold/block.



Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

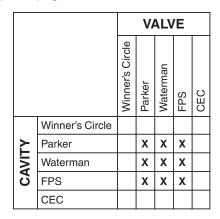
Code	Port Size
Out	
6P	3/8" NPTF
6T	SAE - 6
8T	SAE - 8
6B†	3/8" BSPG
† Steel body only.	

Form Tool: Rougher NFT10-4R Finisher NFT10-4F

Weight: .90 kg (2.0 lbs.)

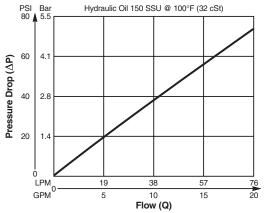
Valve/Cavity Compatibility

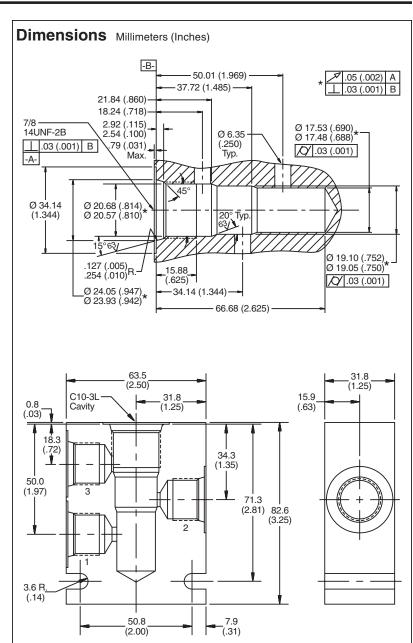
For additional information see Technical Tips on pages BC1-BC6.



Performance Curve

Pressure Drop vs. Flow





Ordering Information

Part Number = 4082075



BC18

Check Valves

CV

SH se

Load/Motor **T** Controls **W**

Flow Controls

Ssure Strols

Press Contr

DQ Logic Elements

Controls

MV

Valv Valv Valv

Solenoid Valves

Proportional **A** Valves

Coils & O

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CV

Check Valves

SH

Shuttle Valves

L Controls

FC

Controls PC

Pressure E

Logic Directional Controls

Manual Valves S

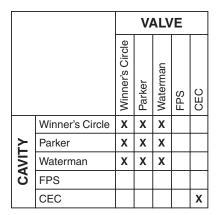
MV

Solenoid Valves PV

Technical Data

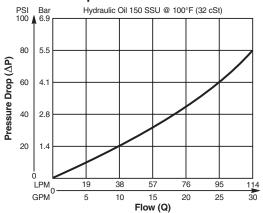
Valve/Cavity Compatibility

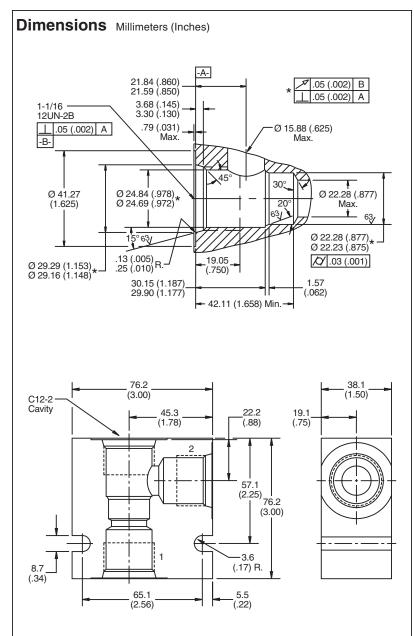
For additional information see Technical Tips on pages BC1-BC6.



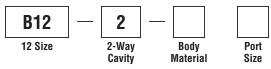
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material
0mit	Steel
Α	Aluminum

Code	Port Size
12P	3/4" NPTF
8T 12T	SAE - 8 SAE - 12

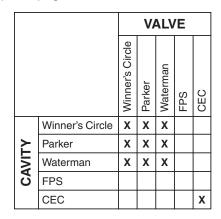
Form Tool: Rougher None

Finisher NFT12-2F

Weight: .45 kg (1.0 lbs.)

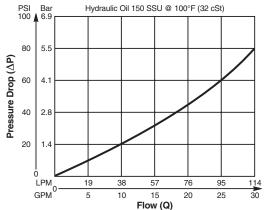
Valve/Cavity Compatibility

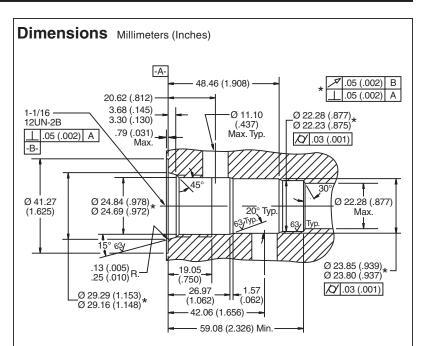
For additional information see Technical Tips on pages BC1-BC6.

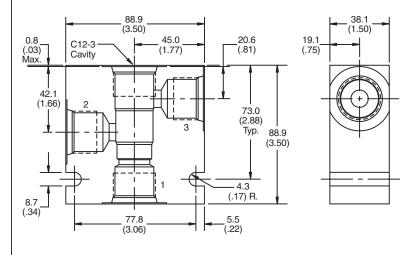


Performance Curve

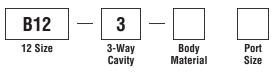
Pressure Drop vs. Flow







Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

Code	Port Size
8T 12T	SAE - 8 SAE - 12
8B†	1/2" BSPG
† Steel body only.	

Form Tool: Rougher NFT12-3R Finisher NFT12-3F

Weight: 2.0 kg (4.5 lbs.)

CV

Load/Motor Controls

Flow Controls

LE

DC

MV

Solenoid Valves

PV Proportional Valves

CE Coils & Electronics

BC



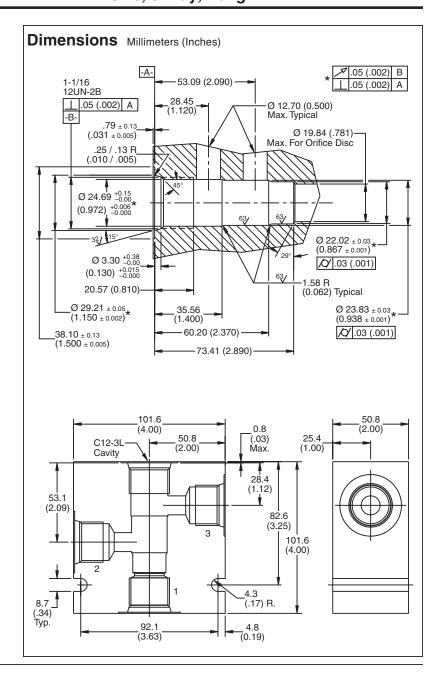
LE

PV

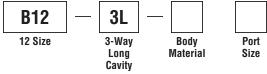
Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.

Performance Curve Pressure Drop vs. Flow



Ordering Information



Body Material
Steel
Aluminum

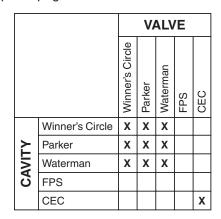
Code | Port Size 12T SAE - 12

Form Tool: Rougher NFT12L-3R Finisher NFT12L-3F

Weight:

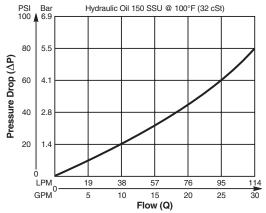
Valve/Cavity Compatibility

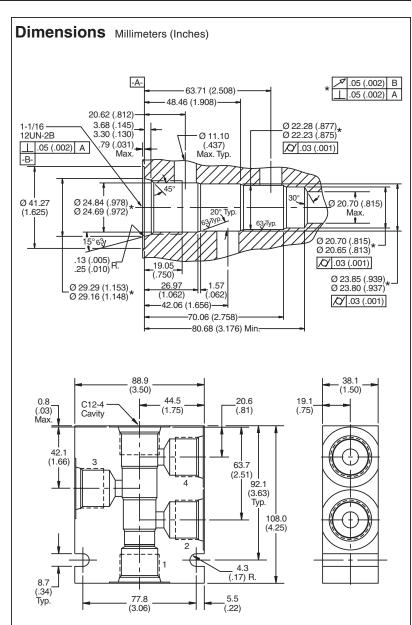
For additional information see Technical Tips on pages BC1-BC6.



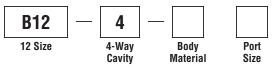
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

Code	Port Size	
12T	SAE - 12	

Form Tool: Rougher NFT12-4R

Finisher NFT12-4F

Weight: 3.3 kg (7.3 lbs.)

Check Valves

SH

Shuttle Valves

Load/Motor T Controls W

Flow Controls

PC ...

Pressure Controls

c ants aT

Directional **d** Lo

言さ MV

Manual Valves

Solenoid **S**Valves **A**

Proportional **A** S
Valves **A** V

Mary Solution Nation Na

Coils & Electronics

BC ॐ ‰

D Bodies Cavitie

Technical Data



CV

Check Valves

SH

Shuttle Valves

L Controls

FC

Flow Controls PC

Pressure Controls

Logic | C

Directional Controls

MV Manual Valves

S Solenoid Valves

Proportional Valves C I

PV

Coils &

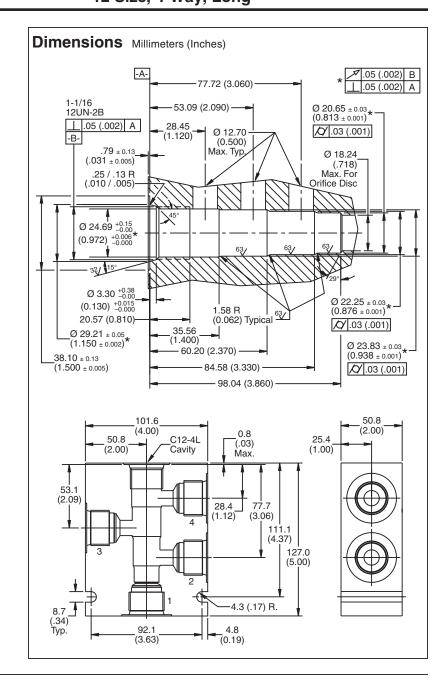
Bodies & Cavities

TD Technical Data

Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.

Performance Curve Pressure Drop vs. Flow



Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

Code Port Size
12T SAE - 12

Form Tool: Rougher NFT12L-4R Finisher NFT12L-4F

Weight:

CV

Check Valves

Load/Motor Controls

Flow Controls

LE

DC

MV

Manual Valves

Solenoid Valves

PV

Proportional Valves

CE

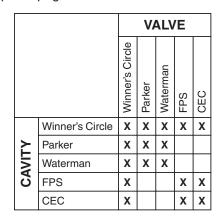
Coils & Electronics

BC

TD

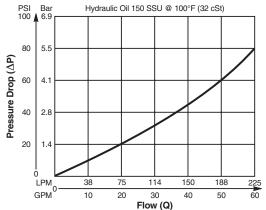
Valve/Cavity Compatibility

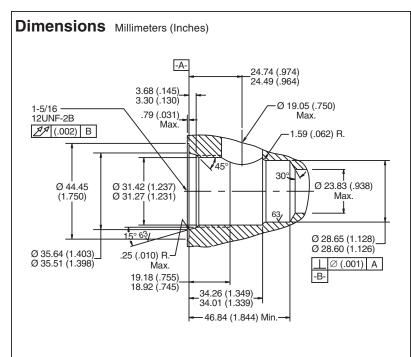
For additional information see Technical Tips on pages BC1-BC6.

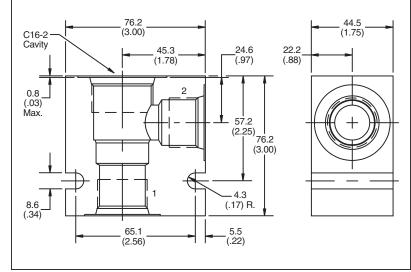


Performance Curve

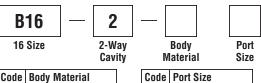
Pressure Drop vs. Flow







Ordering Information



Code	Body Material	Code
0mit	Steel	12P
Α	Aluminum	16P
		8T
		12T
		16T
		1201

1" NPTF SAE - 8 SAE - 12 **SAE - 16 12B†** 3/4" BSPG **16B** 1" BSPG

† Steel body only.

3/4" NPTF

Finisher NFT16-2F

Weight: 1.5 kg (3.4 lbs.)

Form Tool: Rougher None

BC24



CV

Check Valves

SH

Shuttle Valves

LM Load/Motor Controls FC

Flow Controls PC

Pressure E

Logic C Direct Company Company

Directional Controls MV

Wanual Solenoid Valves Valves

Proportional Walves C Electronics

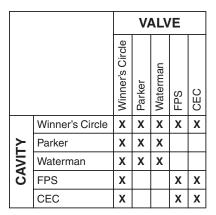
PV

B Cavitie

TD Technical Data

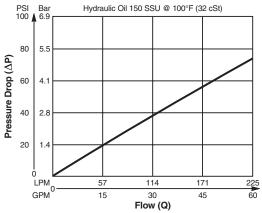
Valve/Cavity Compatibility

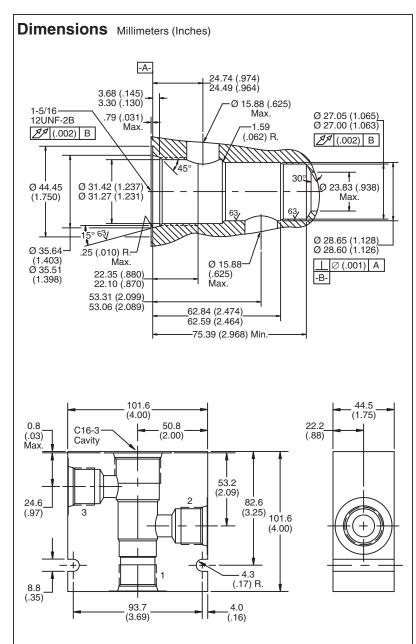
For additional information see Technical Tips on pages BC1-BC6.



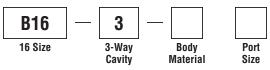
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material
0mit	Steel
Α	Aluminum

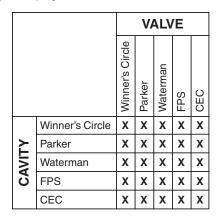
Code	Port Size
12T	SAE - 12
16T	SAE - 16

Form Tool: Rougher NFT16-3R

Finisher NFT16-3F **Weight:** 3.0 kg (6.5 lbs.)

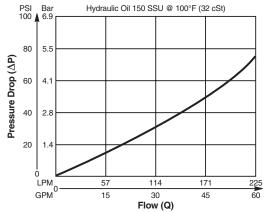
Valve/Cavity Compatibility

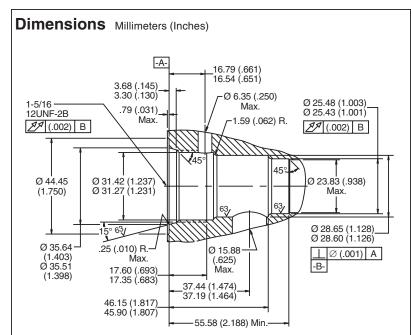
For additional information see Technical Tips on pages BC1-BC6.

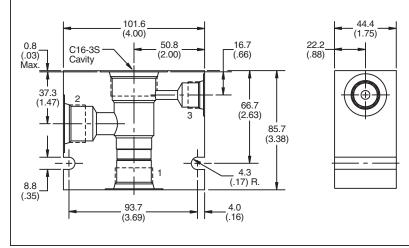


Performance Curve

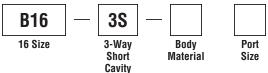
Pressure Drop vs. Flow







Ordering Information



Code	Body Material	
Omit	Steel	
Α	Aluminum	

Code	Port Size
16T	SAE - 16
16B	1" BSPG

Form Tool: Rougher NFT16S-3R Finisher NFT16S-3F Weight: 2.4 kg (5.4 lbs.) CV

Check Valves

SH

Load/Motor **T**Controls **M**

Flow Controls

essure utrols

ogic Tements Tements

ectional **DC** itrols

MV

Manual Valves

Solenoid Valves

Proportional **d** Valves

Coils & O

ВС

Bodies & Cavities

Technical Data



CV

Check Valves

SH

Shuttle Valves

L Controls

FC

Flow Controls PC

Pressure Controls

Logic DC |

Directional Controls MV

Manual Valves

S Solenoid Valves

PV

Proportional La Coils & Valves C Electronics

s & G Bodie:

TD

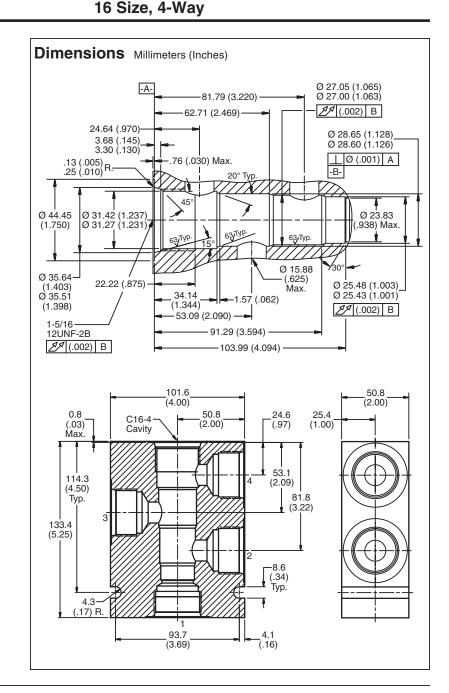
Technical

Valve/Cavity Compatibility

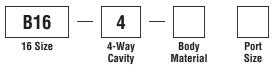
For additional information see Technical Tips on pages BC1-BC6.

		VALVE				
		Winner's Circle	Parker	Waterman	FPS	CEC
	Winner's Circle	X	X	Х	X	Х
≥	Parker	Х	Х	Х		
CAVITY	Waterman	X	X	Х		
2	FPS	X			X	Х
	CEC	Х			Х	Х

Performance Curve Pressure Drop vs. Flow



Ordering Information



Code	Body Material
Omit	Steel
Α	Aluminum

Code Port Size
16T SAE - 16

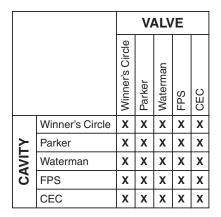
Form Tool: Rougher NFT16-4R

Finisher NFT16-4F

Weight: 3.75 kg (8.125 lbs.)

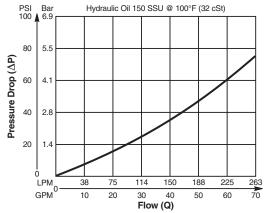
Valve/Cavity Compatibility

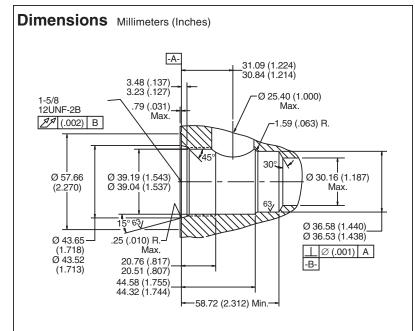
For additional information see Technical Tips on pages BC1-BC6.

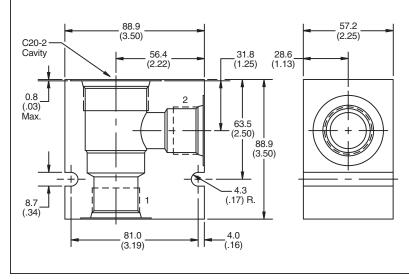


Performance Curve

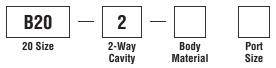
Pressure Drop vs. Flow







Ordering Information



Code	Body Material	
Omit	Steel	

	Code	Port Size	
	20T SAE - 20		
20B 1-1/4" BSPG		1-1/4" BSPG	

Form Tool: Rougher None

Finisher NFT20-2F

Weight: 6.3 kg (14 lbs.)

Check Valves

SH

Shuttle

Load/Motor T Controls W

Flow Controls

> ssure otrols

LE

DQ Elemer

Directiona Controls

Manual Valves

Solenoid S Valves

Proportional **A** Valves **A**

Coils & D Electronics **E**

ВС

Bodies & Cavities

Technical Data



CV

Check Valves

SH

Shuttle Valves

L Controls

FC

Flow Controls PC

Pressure Controls

Logic C Dir

Directional Controls MV

Manual Valves SV

Solenoid Valves

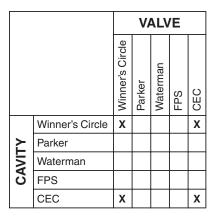
Proportional La Coils & Valves C Electronics

B Cavitie

T Technical Data

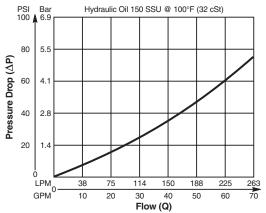
Valve/Cavity Compatibility

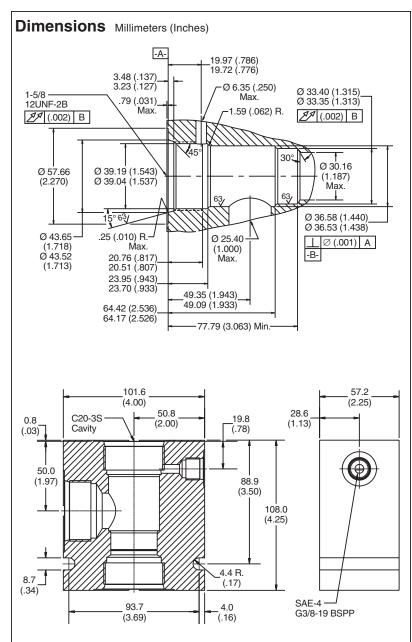
For additional information see Technical Tips on pages BC1-BC6.



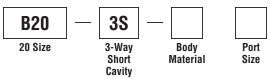
Performance Curve

Pressure Drop vs. Flow





Ordering Information



Code	Body Material
0mit	Steel

	Port Size
20T	SAE - 20
20B	1-1/4" BSPG

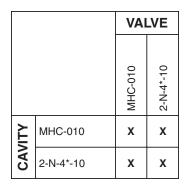
Form Tool: Rougher NFT20S-3R

Finisher NFT20S-3F Weight: 10.8 kg (22.2 lbs.)

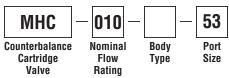


Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.



Ordering Information



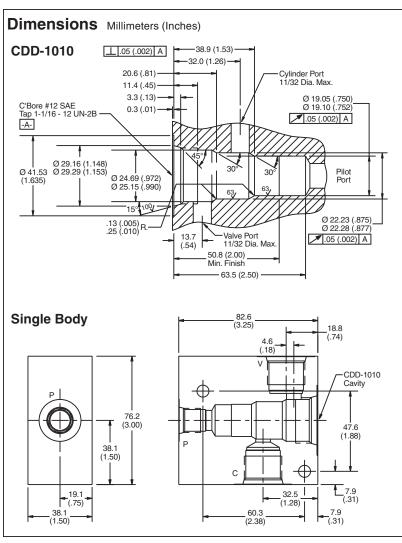
Code	Body Type
Α	Single
D	Dual

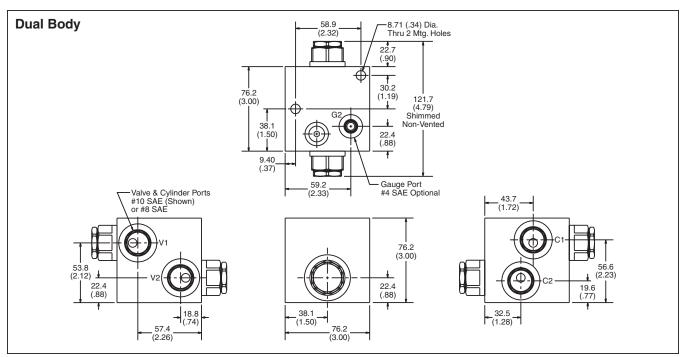
	Code	Port Size
	53	SAE-10
ı		through port

Form Tool: FR-500

Weight: Single 1.1 kg (2.25 lbs.)

1.9 kg (4.10 lbs.) Dual





BC30

CV

Load/Motor Controls

Flow Controls

LE

DC

MV

PV Proportional Valves

CE Coils & Electronics

BC

TD

CV

Check Valves

SH

Shuttle Valves

LM Load/Motor Controls FC

Controls PC

Pressure Controls

Le Logic C

D Controls MV

Manual Valves

SV

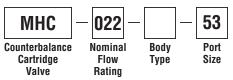
Solenoid Valves PV

Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.

		VAI	_VE
		MHC-022	2-N-4*-25
/ITY	MHC-022	х	x
CAVITY	2-N-4*-25	Х	Х

Ordering Information



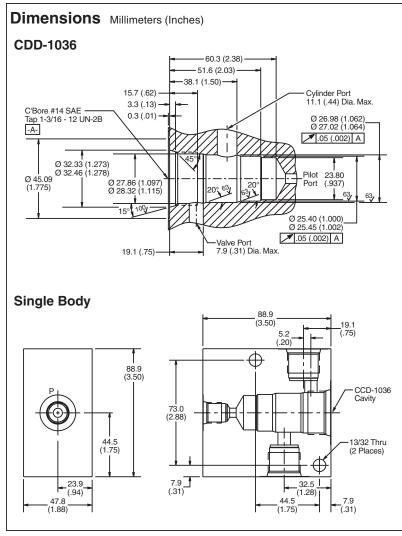
Code	Body Type
Α	Single
D	Dual

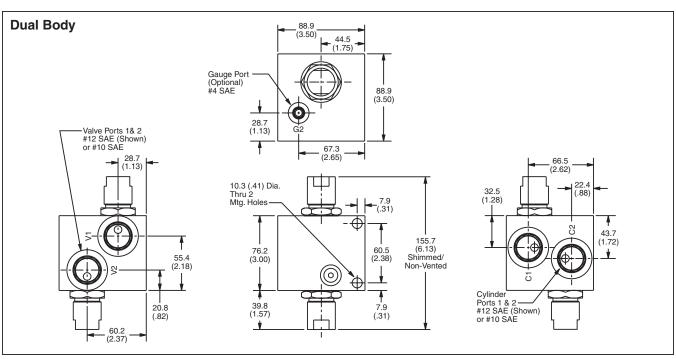
Code	Port Size
53	SAE-10
	through port

Form Tool: FR-501

Weight: Single 1.7 kg (3.75 lbs.)

Dual 2.7 kg (5.90 lbs.)

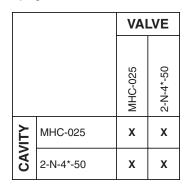




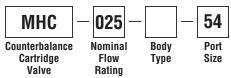


Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.



Ordering Information



Code	Body Type
Α	Single
D	Dual

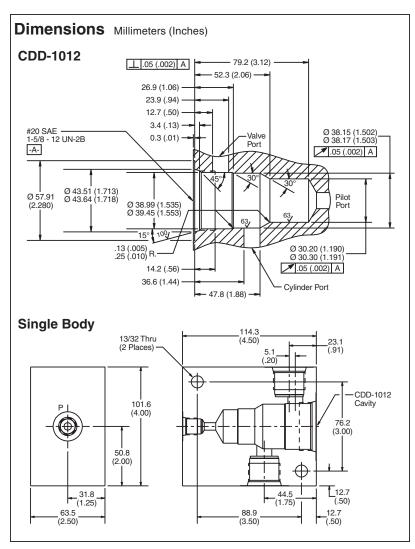
Code	Port Size
54	SAE-12
	through port

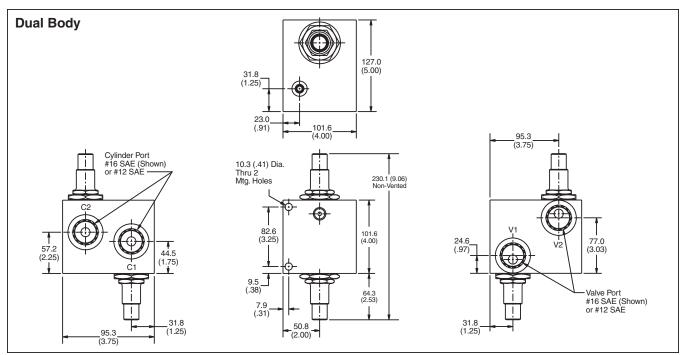
Form Tool: Drill FD-291

Reamer FR-105

Weight: Single 3.3 kg (7.25 lbs.)

Dual 5.4 kg (11.90 lbs.)





BC32

Shuttle Valves ML

Load/Motor T Controls WT

Flow Controls

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LE S

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MV

nual ves

SV

Soleno Valves

Proportional Valves

Coils & O

Bodies & G

DT Bodie

CV

Check Valves

SH

Shuttle Valves

LM Load/Motor Controls

FC

Flow Controls PC

Pressure Controls

LE

Logic Elements DC

Directional Controls MV

Manual Valves SV

Solenoid Valves PV Proportional Valves

CE Coils & Electronics

BC

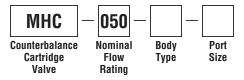
TD

Valve/Cavity Compatibility

For additional information see Technical Tips on pages BC1-BC6.

		VALVE	
		MHC-050	2-N-4*-100
ΙΤΥ	MHC-050	x	х
CAVITY	2-N-4*-100	Х	х

Ordering Information



Code	Body Type
Α	Single
D	Dual

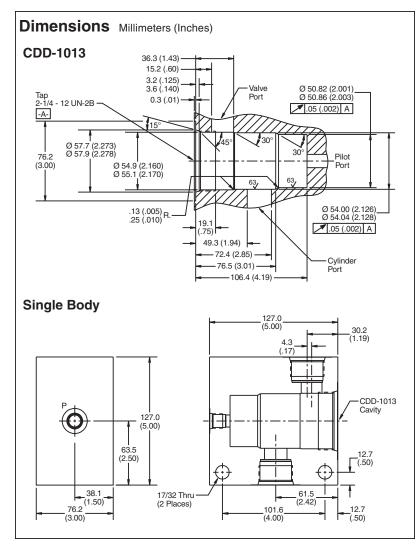
Code	Port Size
54	SAE-12 through port
56	SAE-16 through port

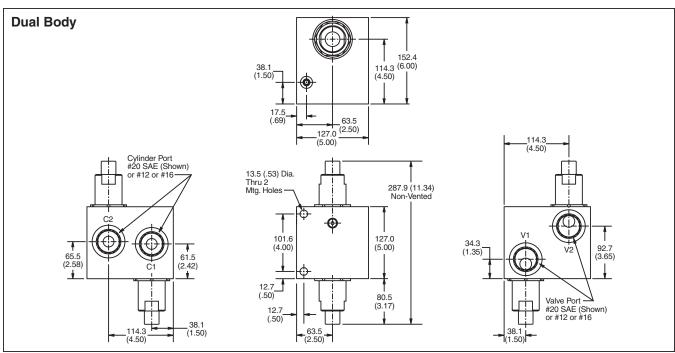
Form Tool: Drill FD-813

Reamer FR-231

Weight: Single 5.5 kg (12.00 lbs.)

Dual 10.8 kg (23.85 lbs.)







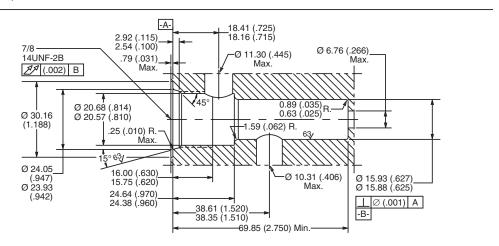
Dimensions Millimeters (Inches)

10 Size Cavity for Single Check and Pilot Piston

For Check Valve Use
CVH103P**

For Pilot Piston Use

717909 No Seal 717909N Buna-N 717909V Fluorocarbon

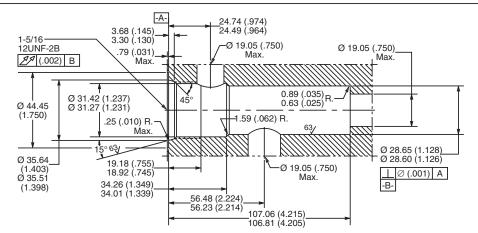


16 Size Cavity for Single Check and Pilot Piston

For Check Valve Use CVH161P**

For Pilot Piston Use

717910 No Seal 717910N Buna-N 717910V Fluorocarbon

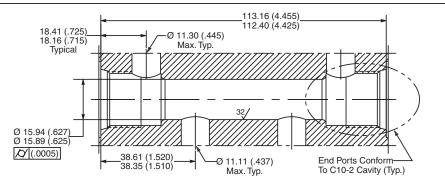


10 Size Cavity for Dual Check and Pilot Piston

For Check Valves Use 2
CVH103P**

For Pilot Piston Use

717917 No Seal 717917N Buna-N 717917V Fluorocarbon

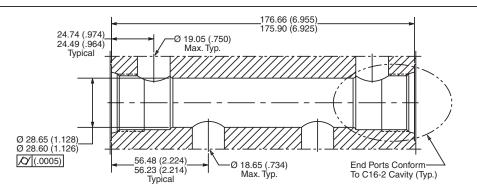


16 Size Cavity for Dual Check and Pilot Piston

For Check Valves Use 2
CVH161P**

For Pilot Piston Use

717918 No Seal 717918N Buna-N 717918V Fluorocarbon



BC34



eck Ives

CV

Check Valve H2

Shuttle Valves

Load/Motor **T** Controls **W**

Flow Controls (

essure ntrols

ic ments **3T**

Directional Controls

MV

Manual

Solenoid Valves

Proportional **A**Valves

Coils & D

ies & BC seities

Technical **4** Bodii Data **G** Cavii

Technical Information

Cavity Plugs

CV

Check Valves

SH

Shuttle Valves

L Load/Motor Controls

Flow Controls PC

FC

Pressure E

Logic C Dir

Directional Controls MV

Manual Valves

S Solenoid Valves

PV Proportional Valves

C Electronics

B Cavities

TD Technical Data

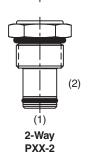
General Description

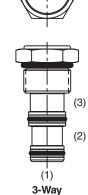
Parker cavity plugs can be used in any Integrated Hydraulic Circuit where one valve serves several machines and/or options. Two machines may have identical circuits except for one having a pressure reducing function, and the other not having this function. The machine that does not require this function can have the pressure reducing function replaced by a cavity plug; thereby utilizing a common body for both machines.

Specifications

Maximum Working Pressure - 350 Bar (5000 PSI) Material - Steel



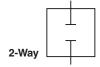


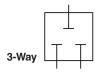


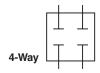
PXX-3

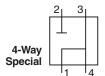
Seals

Symbols

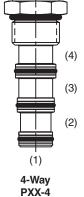




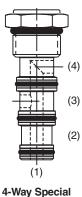




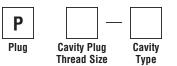








PXX-4C



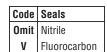
Code	Cavity Plug Thread Size
08*	3/4 - 16
10	7/8 - 14
12	1-1/16 - 12
16	1-5/16 - 12

10	1-3/10 - 12
* 08 No	se Diameter = 1/2"
Consult	Factory for Shaded Areas.

Code	Cavity Type
2	Two Way
3	Three Way
4	Four Way

	Туре								
	Two	Way	Three Way			Four Way			
Code	1	2	1	2	3	1	2	3	4
Omit	С	С	С	С	С	С	С	С	С
Α			0	0	С	0	0	0	С
В			0	С	0	0	0	С	0
C			С	0	0	0	С	0	0
D						*0	*0	*C	*C

C = Blocked O = Open
* Only Available In Sizes 08 and 10.
Consult Factory for Shaded Areas.

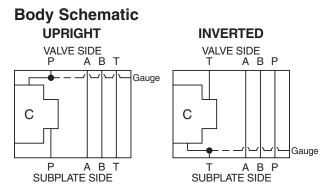




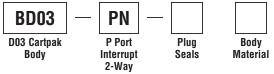
Cartpak Bodies Series BD03-PN

General Description

P Port Interrupt, 2-Way, D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.



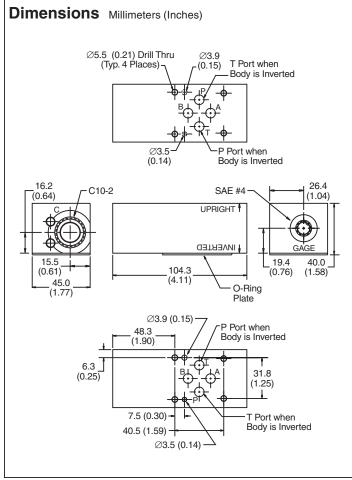
Ordering Information

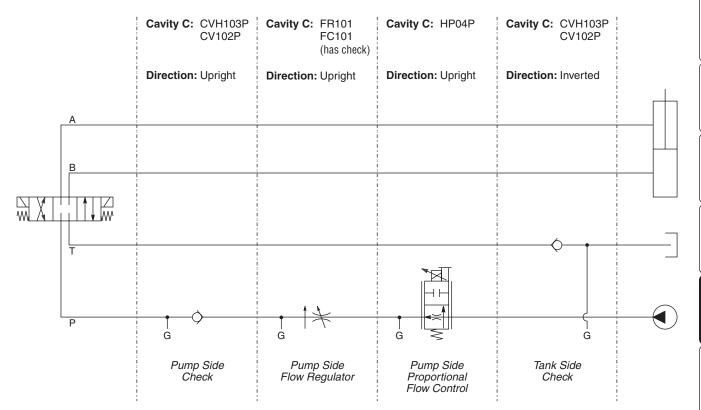


		i		
Code	Plug Seals		Code	Body Material
Omit	Nitrile		Α	Aluminum
V	Fluorocarbon		S	Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Ring Plate, O-Rings and Drive Pin Kit





BC36

Check Valves

CV

SH

Shuttle

Load/Motor T Controls W

Flow Controls

PC solution solution

LE st

DC Eleme

AM Direction Controls

Manual Valves

Solenoid Valves

Proportional **A**Valves

Coils & Electronics

Bodies & Cavities

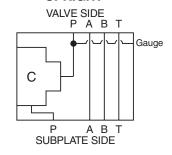
unical **DT**

General Description

P Port Interrupt, 2-Way, D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic

UPRIGHT



Ordering Information

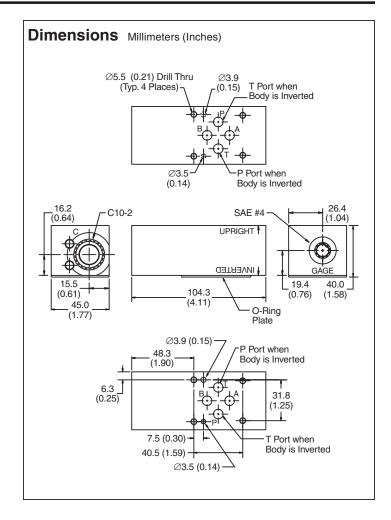


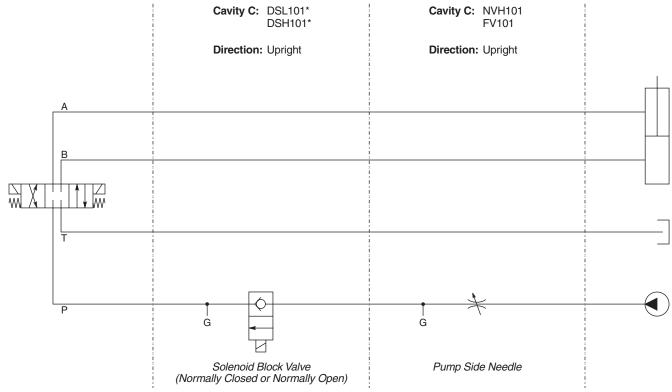
Code	Plug Seals
Omit	Nitrile
V	Fluorocarbon

Code Body Material A Aluminum S Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Ring Plate, O-Rings and Drive Pin Kit



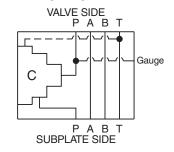


General Description

P Port Interrupt, Reducing Function, D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic

UPRIGHT



Ordering Information

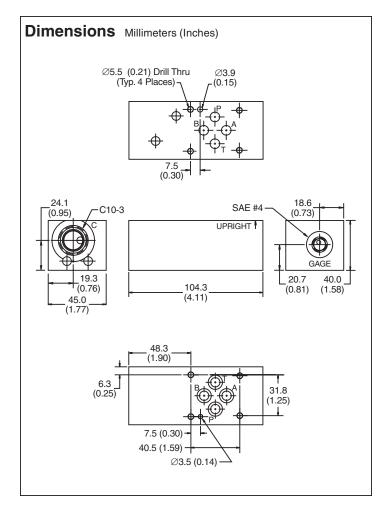


Code	Plug Seals
O mit	Nitrile
V	Fluorocarbon

Code **Body Material** Aluminum Α S Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Rings and Drive Pin



Load/Motor Controls

Flow Controls

LE

DC

MV

Solenoid Valves

PV

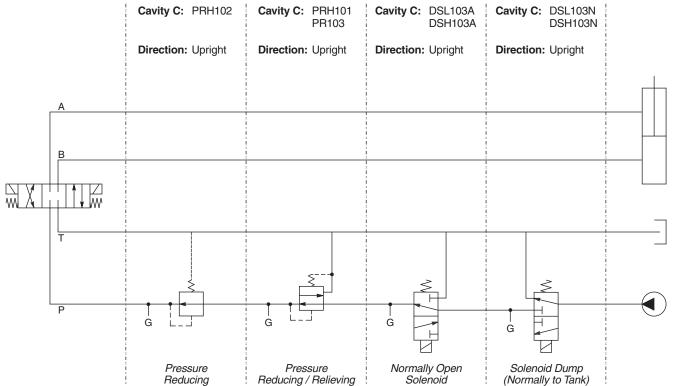
Proportional Valves

CE

Coils & Electronics

TD

Technical Data



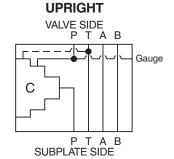
BC38

PV

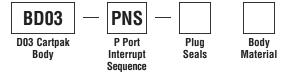
General Description

P Port Interrupt, Sequence Function, D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic



Ordering Information

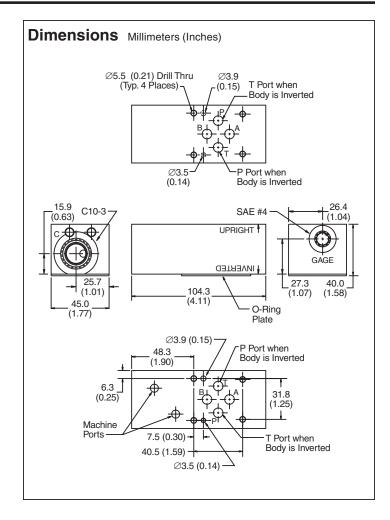


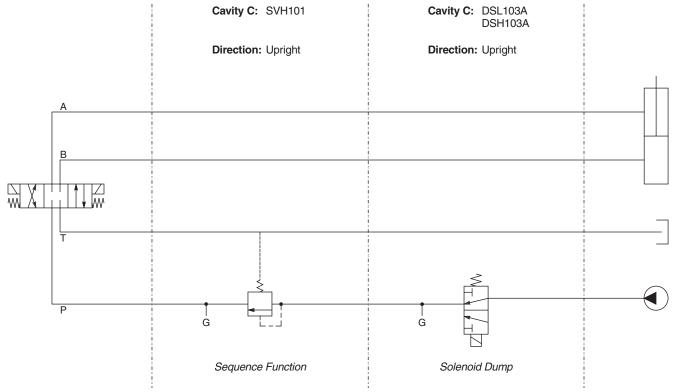
Code	Plug Seals
Omit	Nitrile
V	Fluorocarbon

Code Body Material A Aluminum S Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Ring Plate, O-Rings and Drive Pin Kit

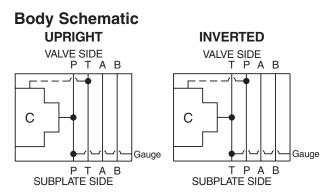




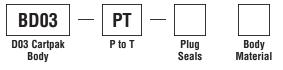
Cartpak Bodies Series BD03-PT

General Description

P to T D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.



Ordering Information

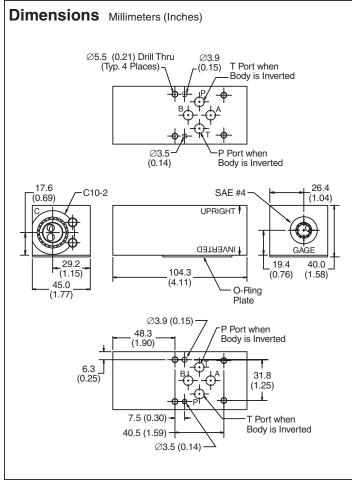


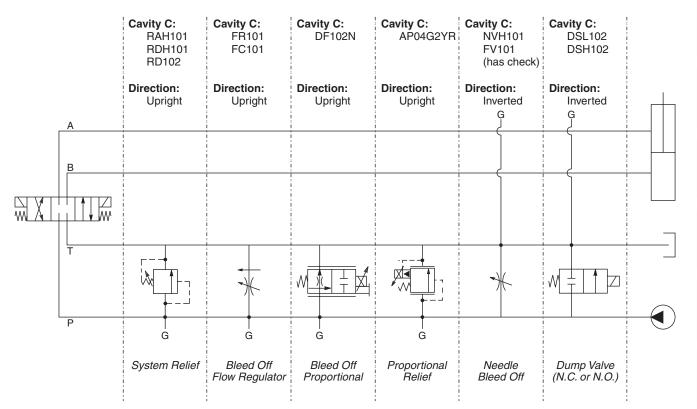
Code	Plug Seals
O mit	Nitrile
V	Fluorocarbon

Code	Body Material
Α	Aluminum
S	Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Ring Plate, O-Rings and Drive Pin Kit





BC40

Sheck /alves

CV

SH

Shuttle Valves

Load/Motor F Controls

Flow Controls

essure ntrols

ogic ements **T**

rectional **D**

MV

Manual Valves

Solenoid Valves

Proportional Ics THE Valves

Coils & Electronics

Bodies & D

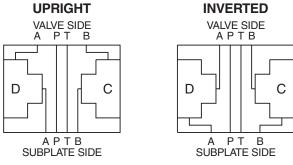
Technical **L** B

MV

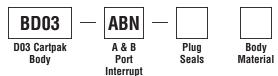
General Description

A and B Port Interrupt D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

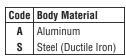
Body Schematic



Ordering Information

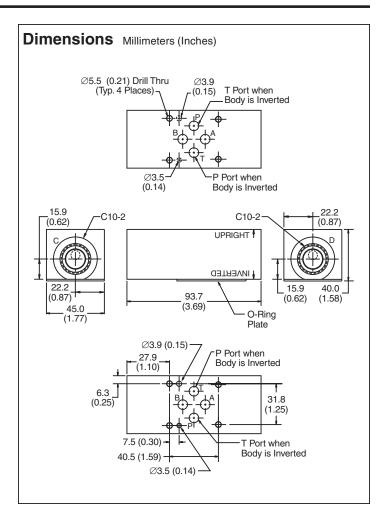


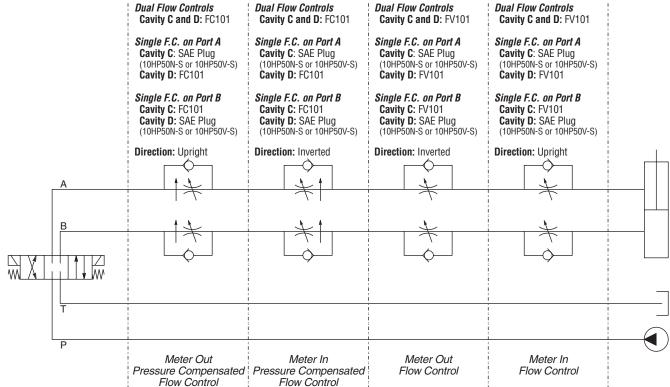
Code	Plug Seals
Omit	Nitrile
V	Fluorocarbon



Body supplied with:

O-Ring Plate, O-Rings and Drive Pin Kit





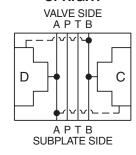


General Description

A and B Crossover D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic

UPRIGHT



Ordering Information

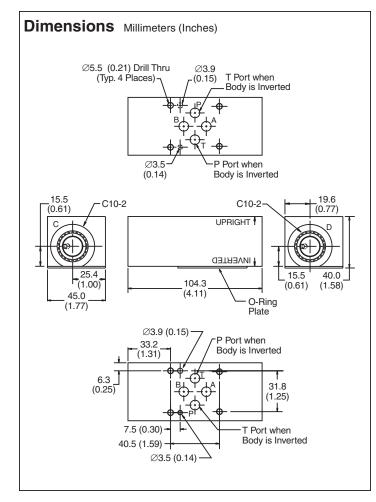


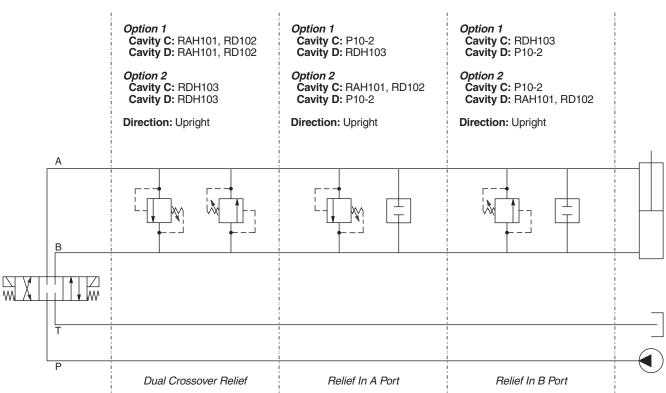
Code	Plug Seals
Omit	Nitrile
V	Fluorocarbon

Code	Body Material
Α	Aluminum
S	Steel (Ductile Iron)

Body supplied with:

O-Ring Plate, O-Rings and Drive Pin Kit





BC42

LM Valv

Load/Motor C

Flow

Pressure Controls

ogic ements

Directional **Q** Controls **D** E

MV

Manu: Valve

Solenoid Valves

Proportional A

Coils & Coils & Electronics

Bodies & Cavities

Technical **4** B

Technical Information

CV

Check Valves

SH

Shuttle M L

Load/Motor Controls FC

Flow Controls Pressure

LE Logic DC

D Directional Controls MV

Manual
ValvesSolenoidValves



Coils & C

Bodies & Cavities

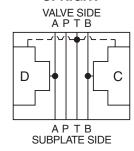
TD Technical Data

General Description

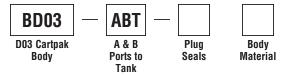
A and B Ports to Tank D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic

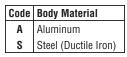
UPRIGHT



Ordering Information

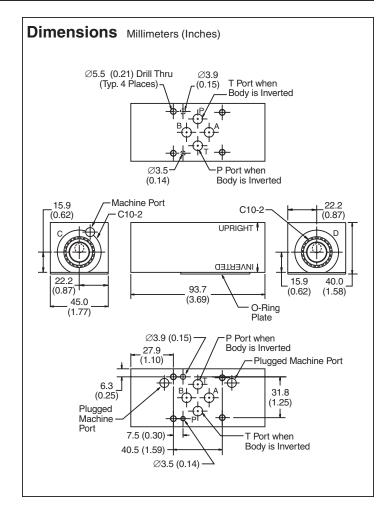


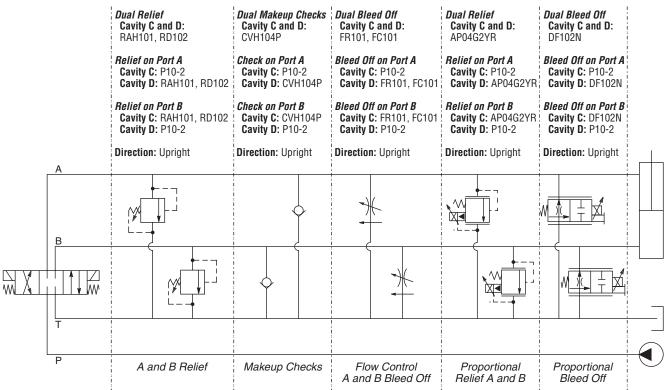
Code	Plug Seals
Omit	Nitrile
V	Fluorocarbon



Body supplied with:

O-Ring Plate, O-Rings and Drive Pin Kit





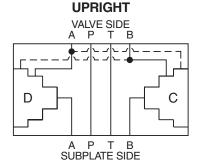


Cartpak Bodies Series BD03-DDX

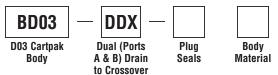
General Description

Dual (Ports A and B) Drain to Crossover Port D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic



Ordering Information

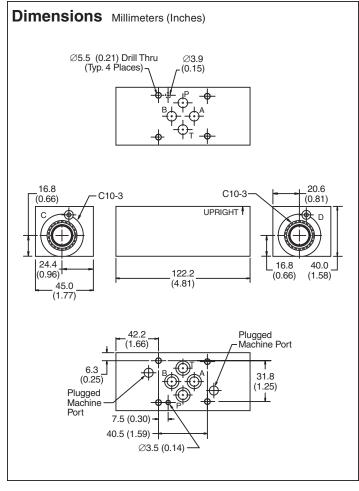


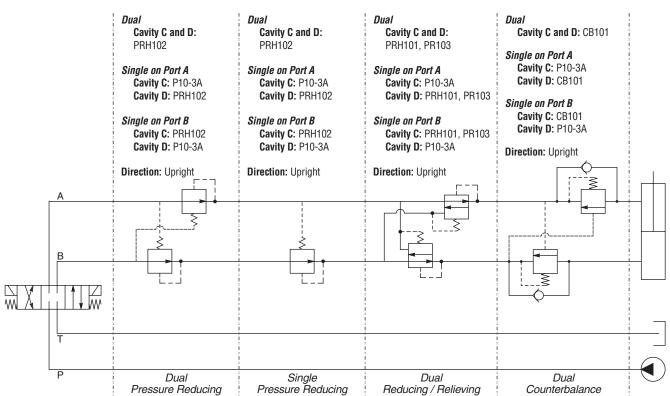
Code	Plug Seals
O mit	Nitrile
V	Fluorocarbon

Co	de	Body Material
P	١	Aluminum
S	3	Steel (Ductile Iron)

Body supplied with:

• O-Rings and Drive Pin





BC44

heck alves

CV

Sa Sa

Shuttle Valves

Load/Motor **T** Controls **W**

Flow Controls (

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Press Contro

Logic Elements

Directional Controls

MV

Manual

Solenoid (Valves

Proportional **A** Valves

Coils & Coils & Electronics

Bodies & Cavities

Technical **A** Bo

FC

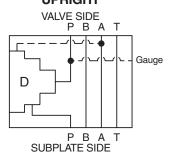
MV

BC

General Description

B Port Drain to A D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic UPRIGHT



Ordering Information

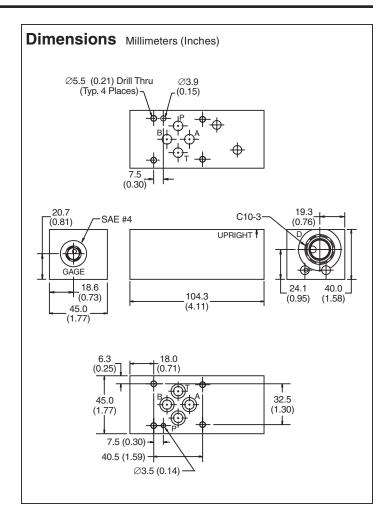


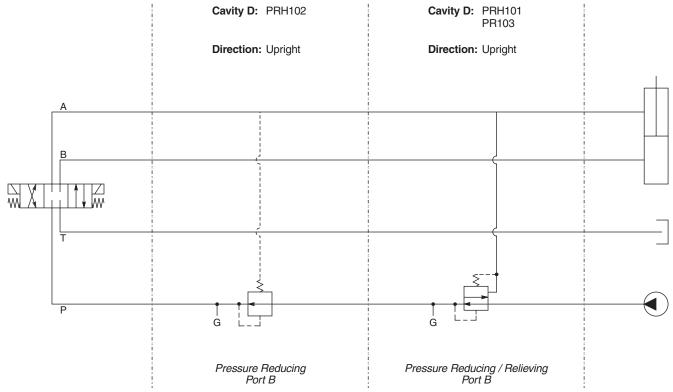
Code	Plug Seals
O mit	Nitrile
V	Fluorocarbon

Code	Body Material
Α	Aluminum
S	Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Rings and Drive Pin



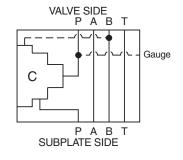


General Description

A Port Drain to B D03 Cartpak Body. For additional information see Technical Tips on pages BC1-BC6.

Body Schematic

UPRIGHT



Ordering Information

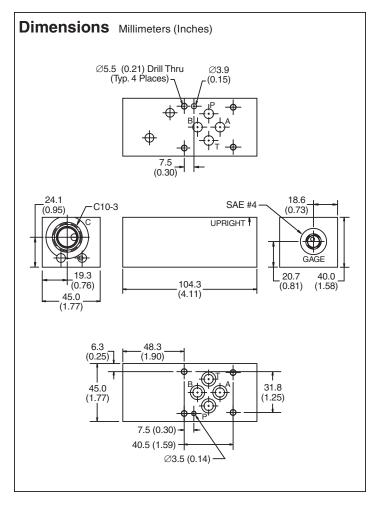


Code	Plug Seals
0mit	Nitrile
V	Fluorocarbon

Code	Body Material
Α	Aluminum
S	Steel (Ductile Iron)

Body supplied with:

- Gage Port Plug Installed
- O-Rings and Drive Pin



CV

Load/Motor Controls

Flow Controls

LE

DC

MV

Solenoid Valves

PV

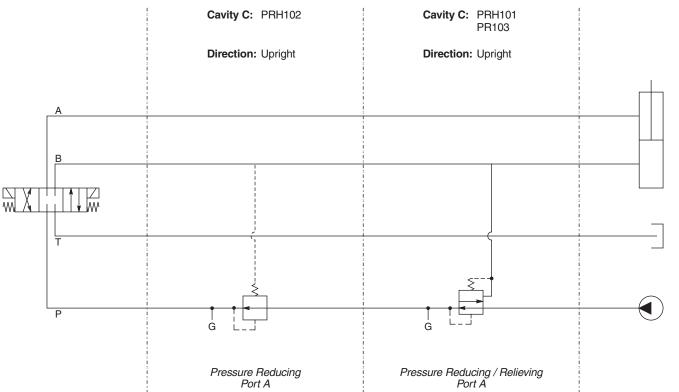
Proportional Valves

CE

Coils & Electronics

TD

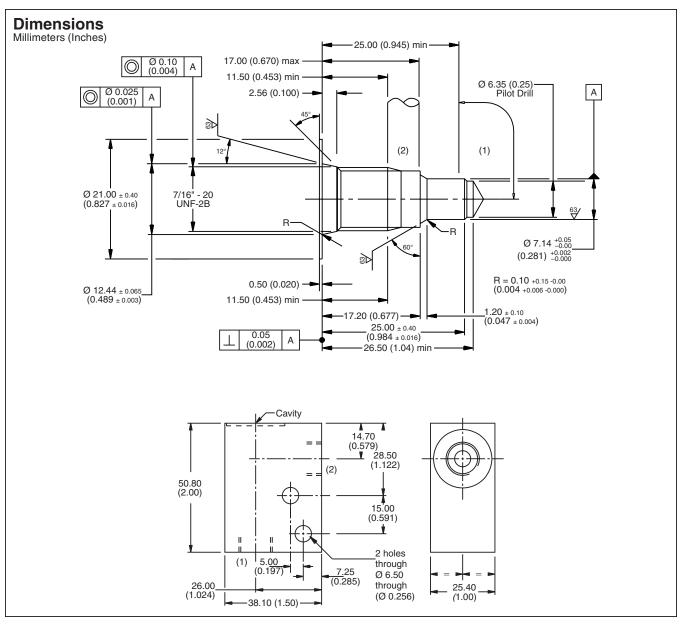
Technical Data

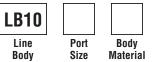


BC46

PV

For additional information see Technical Tips on pages BC1-BC6.

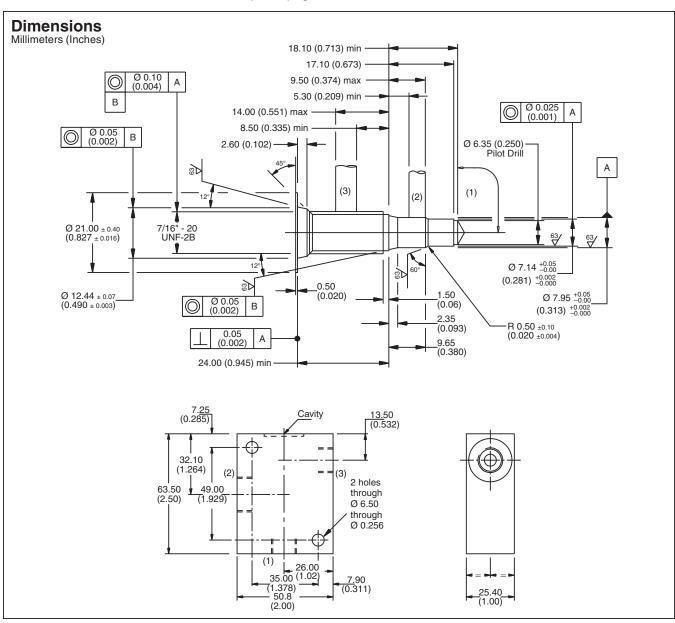




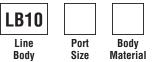
Code	Port Size
795	1/4 SAE
796	1/4 BSP

Code	Body Material
Α	Aluminum
S	Steel

or CAVOW-2
6.35 (0.25)
8DS31369
8RM31082A
8RM31082S
_
8TP31221



Ordering Information



Code	Port Size
815	1/4 SAE
816	1/4 BSP

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For CAVSW-3	
Pilot Drill Ø	6.35 (0.25)
Step Drill	8DS31378
Reamer (Alum)	8RM31086A
Reamer (Steel	8RM31086S
Counterbore	_
Тар	8TP31221

CV

Load/Motor Controls

LE

MV

PV Proportional Valves

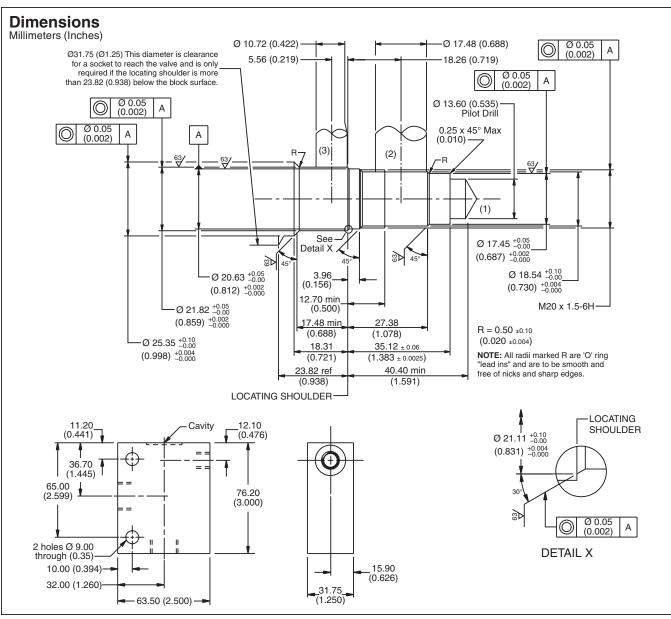
CE Coils & Electronics

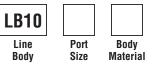
LE

MV

TD

For additional information see Technical Tips on pages BC1-BC6.





Code	Port Size
825	1/2 SAE (Main) 1/4 SAE (Aux.)
826	1/2 BSP (Main) 1/4 BSP (Aux.)

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For CAVT11A	
Pilot Drill Ø	13.60 (0.535)
Step Drill	8DS31387
Reamer (Alum)	8RM31095A
Reamer (Steel	8RM31095S
Counterbore	_
Тар	8TP31209

CV

Load/Motor Controls

LE

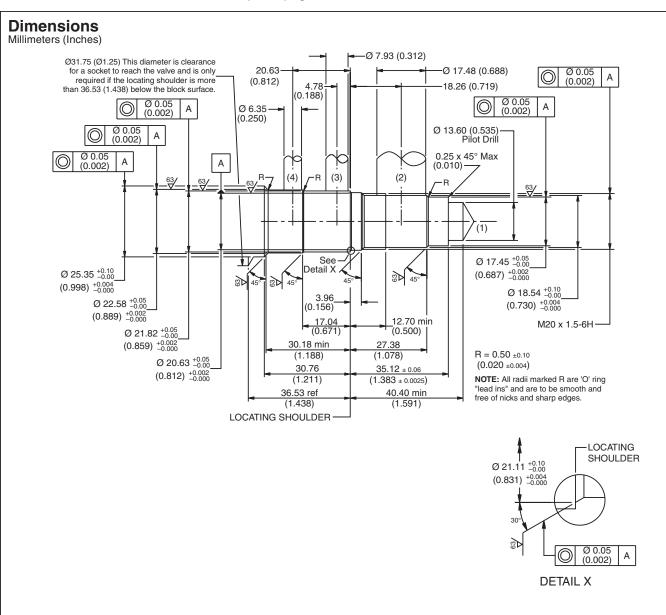
MV

PV

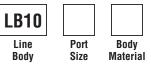
Proportional Valves

CE

For additional information see Technical Tips on pages BC1-BC6.



BC50



Code	Port Size	
830	1/2 SAE (Main) 3/8 + 1/4 SAE (Aux.)	
831	1/2 BSP (Main) 3/8 + 1/4 BSP (Aux.)	

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For CAVT11A	
Pilot Drill Ø	13.60 (0.535)
Step Drill	8DS31388
Reamer (Alum)	8RM31096A
Reamer (Steel	8RM31096S
Counterbore	_
Тар	8TP31209

Technical Information

CV

Check Valves

SH

Shuttle Valves

L Controls

Flow Controls PC

Pressure E

Logic C I

Directional Controls

Manual Valves

MV

S Solenoid Valves

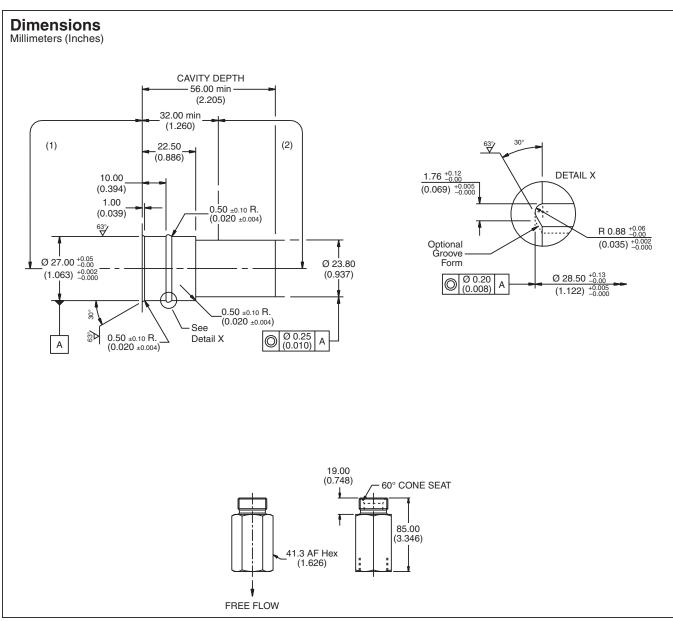
PV

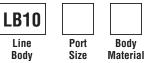
Proportional Valves C Electronics

B Cavitie

Technical Data

For additional information see Technical Tips on pages BC1-BC6.





Code	Port Size
210	1 BSP
212	1 SAE

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For 2C	
Pilot Drill Ø	_
Step Drill	_
Reamer (Alum)	_
Reamer (Steel	_
Counterbore	_
Тар	_

CV

Load/Motor Controls

LE

MV

PV

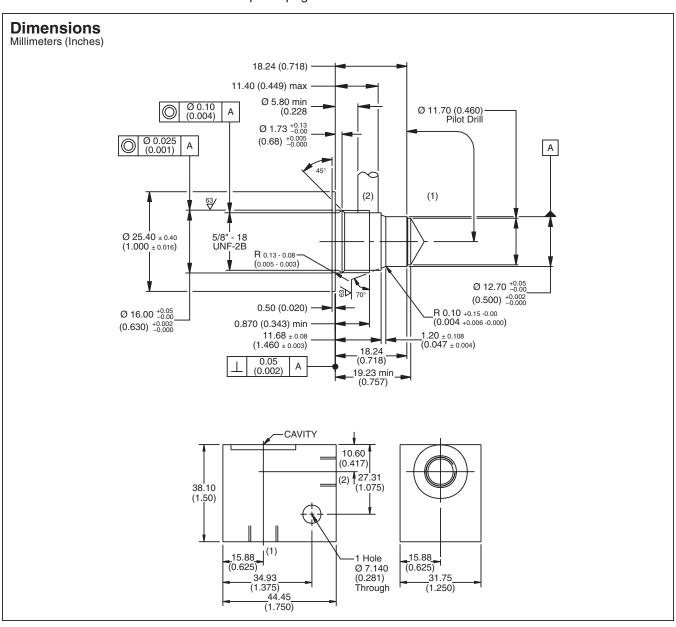
Proportional Valves

CE

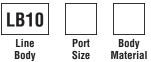
Coils & Electronics

BC

For additional information see Technical Tips on pages BC1-BC6.



BC52



Code	Port Size	
324	1/4 SAE	
325	1/4 BSP	

Material
inum

Cavity Tooling Fo	or 2G
Pilot Drill Ø	11.70 (0.46)
Step Drill	8DS31384
Reamer (Alum)	8RM31092A
Reamer (Steel	8RM31092S
Counterbore	_
Тар	8TP31223

Technical Information

CV

Check Valves

SH

Shuttle Valves

L Controls

FC

Controls PC

Pressure Controls

LE

Logic Elements

D Directional Controls

Manual Valves

MV

S Solenoid Valves

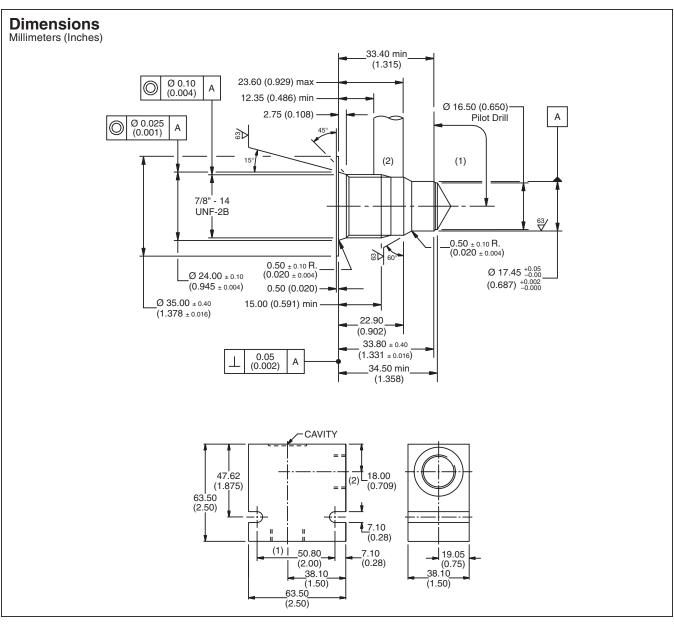
Proportional **E**

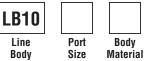
PV

Coils & & Bodies
Electronics & Cavil

T Technical Data

For additional information see Technical Tips on pages BC1-BC6.

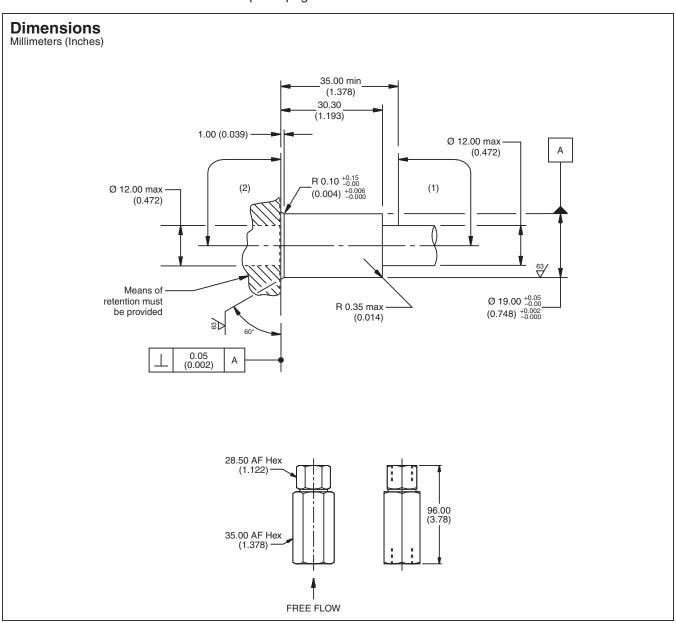




Code	Port Size
543	1/2 SAE
545	1/2 BSP

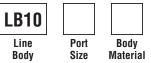
Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For 2R
Pilot Drill Ø
Step Drill
Reamer (Alum)
Reamer (Steel
Counterbore
Тар



BC54

Ordering Information



Code	Port Size
205	1 BSP
220	1 SAE

Code	Body Material
S	Steel

Cavity Tooling For 2U	
Pilot Drill Ø	_
Step Drill	_
Reamer (Alum)	_
Reamer (Steel	_
Counterbore	_
Тар	_

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Shuttle Valves

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Proportional **A** Valves **A**

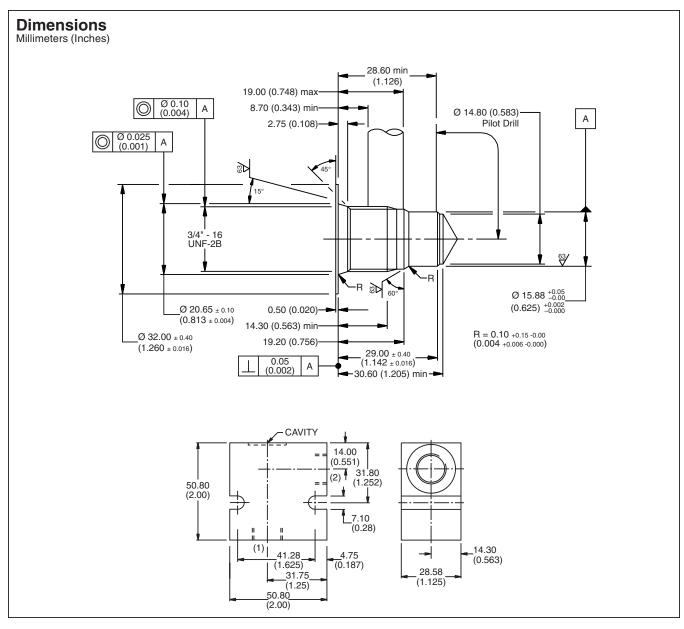
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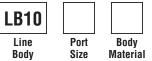
Bodies & Cavities

PV

For additional information see Technical Tips on pages BC1-BC6.



Ordering Information



Code	Port Size
513	3/8 SAE
515	1/4 BSP

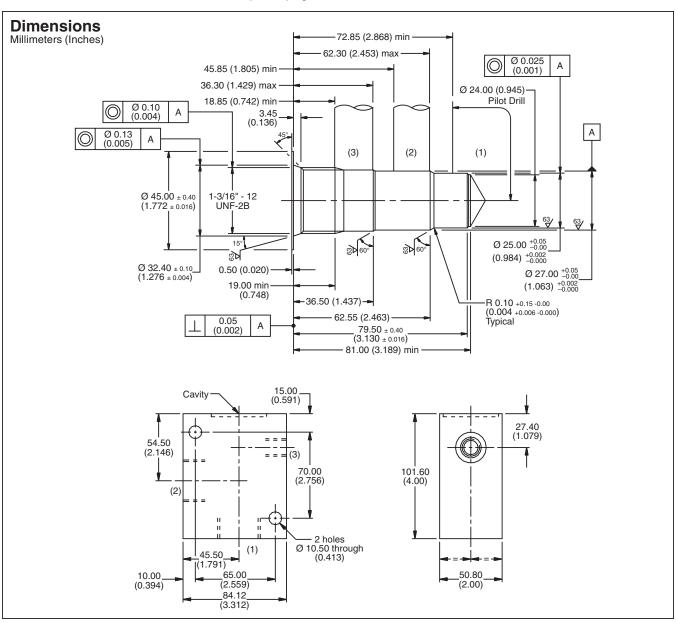
Code	Body Material
Α	Aluminum
S	Steel

Cavity Tooling F	or 2X
Pilot Drill Ø	14.80 (0.583)
Step Drill	8DS31344
Reamer (Alum)	8RM31057A
Reamer (Steel	8RM31057S
Counterbore	_
Тар	8TP31202

NUIE.

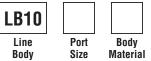
Use parker CO9-2 cavity and body.





BC56

Ordering Information



Code	Port Size
007	3/4 BSP
066	1 SAE

Code	Body Material
Α	Aluminum
S	Steel

Cavity Tooling For 3A	
Pilot Drill Ø	24.00 (0.94)
Step Drill	8DS31303
Reamer (Alum)	8RM31003A
Reamer (Steel	8RM31003S
Counterbore	8CB31100
Тар	8TP31200

Proportional Valves CE Coils & Electronics

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CV

Load/Motor Controls

Flow Controls

LE

MV

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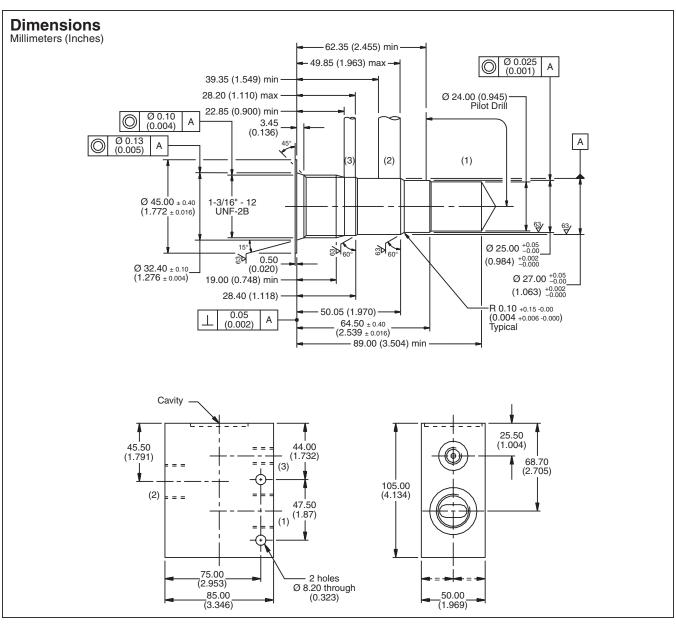
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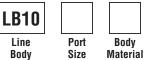
MV

PV

T Technical Data

For additional information see Technical Tips on pages BC1-BC6.

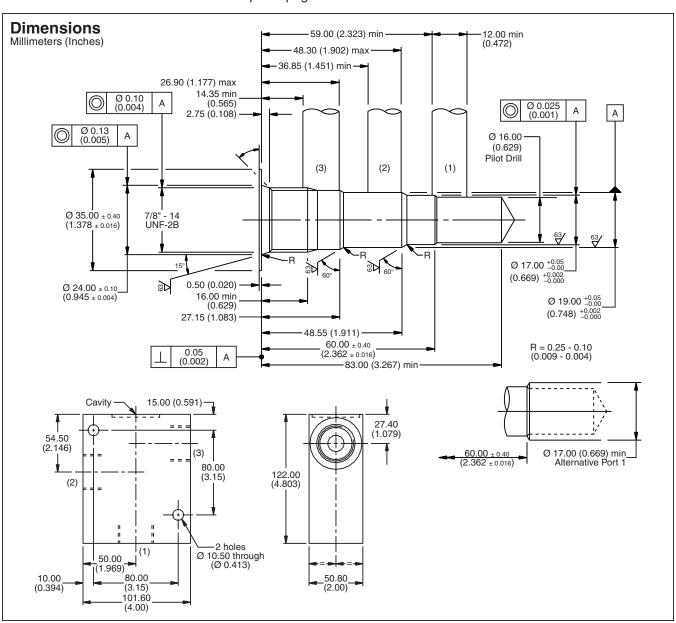




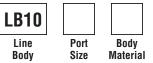
Code	Port Size
039	3/4 BSP (Main) 1/4 BSP (Aux.)
069	1 SAE (Main) 1/4 SAE (Aux.)
034	3/4 BSP Dual Cavity
234	3/4 SAE Dual Cavity

0-4-	Dady Material
Coue	Body Material
Α	Aluminum
S	Steel

Cavity Tooling Fo	or 3C
Pilot Drill Ø	24.00 (0.94)
Step Drill	8DS31305
Reamer (Alum)	8RM31005A
Reamer (Steel	8RM31005S
Counterbore	8CB31100
Тар	8TP31200



Ordering Information



Code	Port Size
092	3/4 BSP
093	1 SAE

Code	Body Material
Α	Aluminum
S	Steel

Cavity Tooling For 3J
Pilot Drill Ø
Step Drill
Reamer (Alum)
Reamer (Steel
Counterbore
Тар

CV

Flow Controls

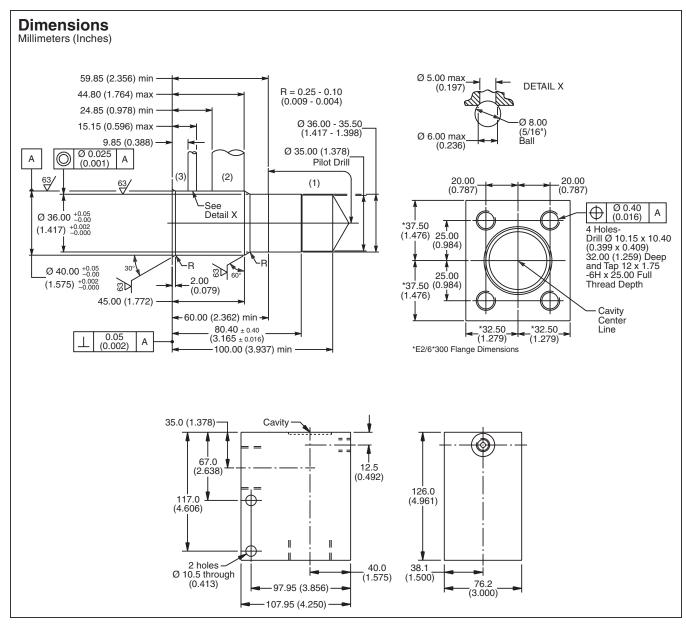
LE

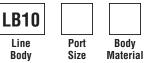
MV

PV

Proportional Valves

CE Coils & Electronics

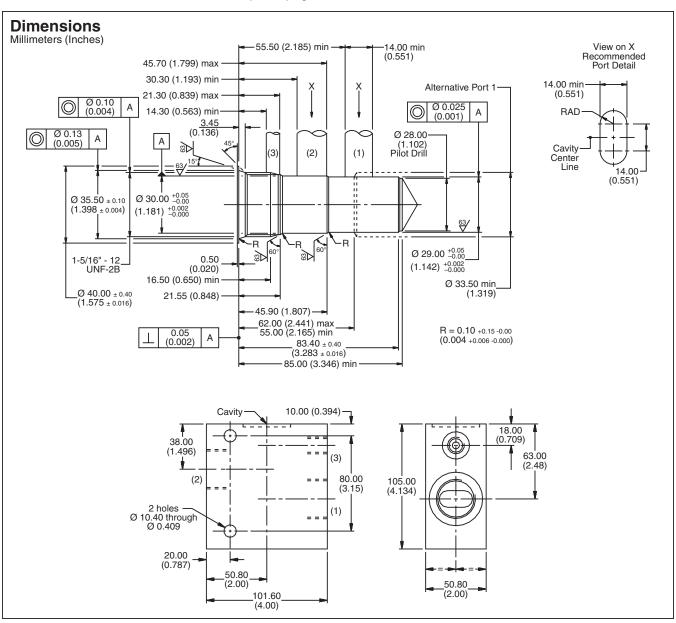




Code	Port Size
089	1-1/4 BSP (Main)
	1/4 BSP (Aux)

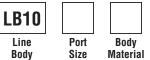
Code	Body Material
Α	Aluminum
S	Steel
S	Steel

Cavity Tooling Fo	or 3K
Pilot Drill Ø	35.00 (1.38)
Step Drill	8DS31310
Reamer (Alum)	8RM31010A
Reamer (Steel	8RM31010S
Counterbore	
Тар	8TP31215



BC60

Ordering Information



Code	Port Size
076	1 BSP (Main) 1/4 BSP (Aux.)
078	1 SAE (Main) 1/4 SAE (Aux.)
104	1 BSP Dual Cavity
105	1 SAE Dual Cavity

Code	Body Material
Α	Aluminum
S	Steel

Cavity Tooling For 3M	
Pilot Drill Ø	28.00 (1.10)
Step Drill	8DS31311
Reamer (Alum)	8RM31011A
Reamer (Steel	8RM31011S
Counterbore	8CB31103
Тар	8TP31203

Bodies & EEC Cavities

CV

Load/Motor Controls

Flow Controls

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MV

PV

Proportional Valves

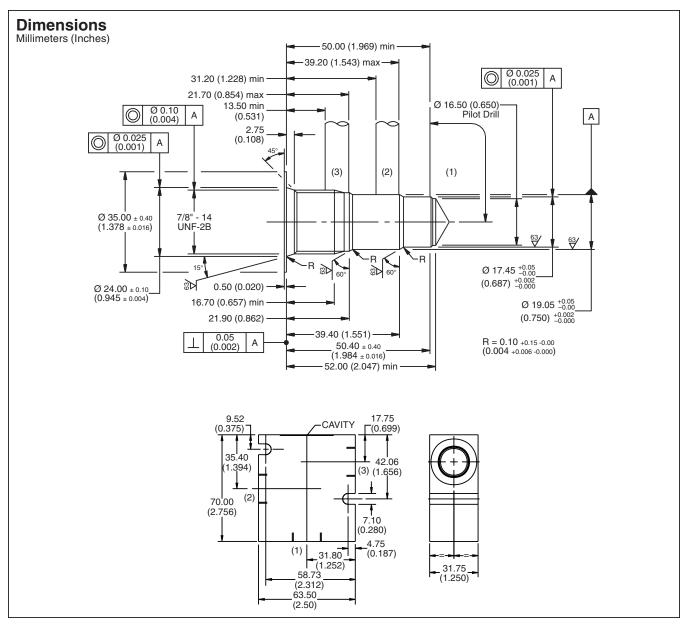
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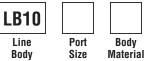
Coils & Electronics

MV

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For additional information see Technical Tips on pages BC1-BC6.

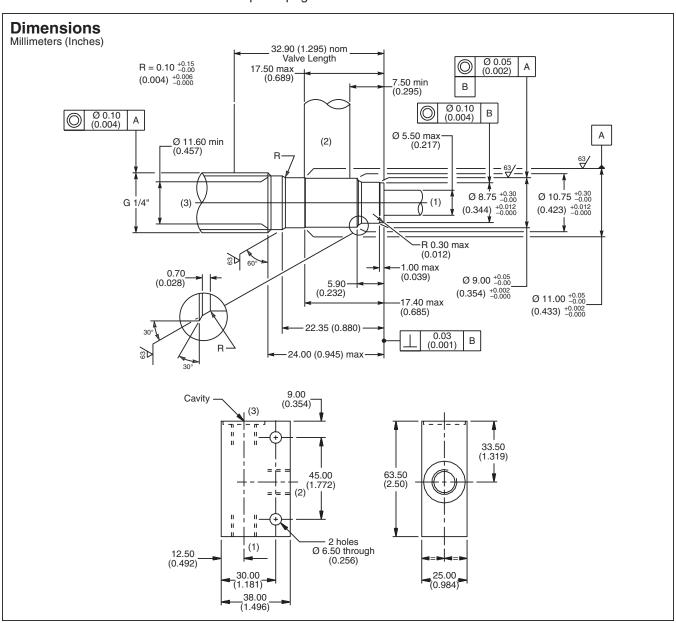




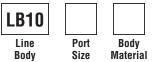
Code	de Port Size	
553	1/2 SAE	
554	3/8 BSP	

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For 3X	
Pilot Drill Ø	16.50 (0.650)
Step Drill	8DS31343
Reamer (Alum)	8RM31062A
Reamer (Steel	8RM31062S
Counterbore	
Тар	8TP31201



Ordering Information



Code	Port Size
313	1/4 BSP
320	1/4 SAE

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For 3Z	
Pilot Drill Ø	8.50 (0.335)
Step Drill	8DS31355
Reamer (Alum)	8RM31055A
Reamer (Steel	8RM31055S
Counterbore	_
Тар	8TP31219

CV

Load/Motor **T** Controls **W**

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Technical Information

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Shuttle Valves

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Load/Motor Controls

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Pressure Controls

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Manual Valves

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Solenoid Valves

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Proportional Valves

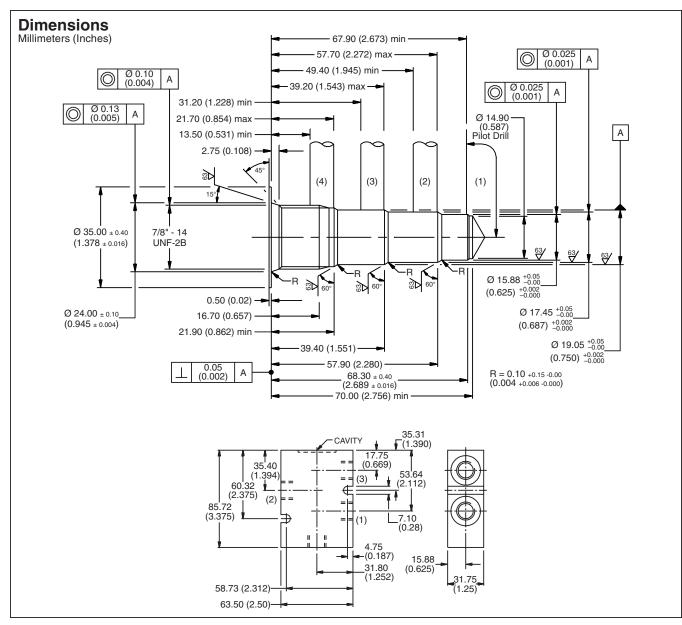
CE

Coils & Electronics

BC

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For additional information see Technical Tips on pages BC1-BC6.





Code	Port Size
562	1/2 SAE
563	3/8 BSP

Code	Body Material	
Α	Aluminum	
S	Steel	

Cavity Tooling For 4C	
Pilot Drill Ø	14.90 (0.587)
Step Drill	8DS31346
Reamer (Alum)	8RM31063A
Reamer (Steel	8RM31063S
Counterbore	_
Tap	8TP31201

CV

Load/Motor Controls

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MV

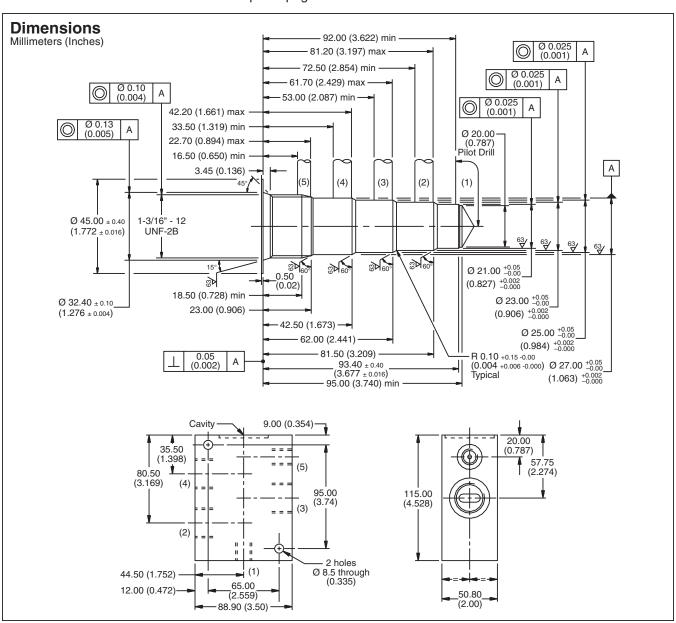
PV

Proportional Valves

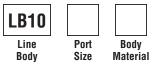
CE

Coils & Electronics

For additional information see Technical Tips on pages BC1-BC6.



BC64



Code	Port Size	
314	3/4 BSP (Main) 1/4 BSP (Aux.)	
321	3/4 SAE (Main) 1/4 SAE (Aux.)	

Code	Body Material
Α	Aluminum
S	Steel
9	Steel

Cavity Tooling For 5A	
Pilot Drill Ø	20.00 (0.78)
Step Drill	8DS31353
Reamer (Alum)	8RM31053A
Reamer (Steel	8RM31053S
Counterbore	8CB31100
Тар	8TP31200

Technical Information

CV

Check Valves

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Shuttle Valves L

Load/Motor Controls

FC

Flow Controls PC

Pressure E

Logic C Elements

Directional Controls

Manual Valves

MV

S Solenoid Valves

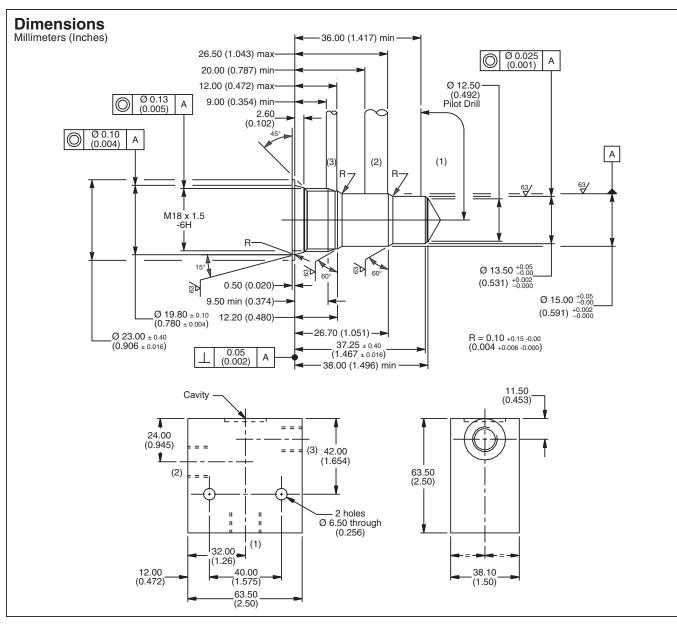
PV

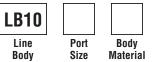
Proportional La Coils & Valves C Electronics

B Cavitie

Technical Data

For additional information see Technical Tips on pages BC1-BC6.





Code	Port Size
310	3/8 BSP (Main) 1/4 BSP (Aux.)
318	3/8 SAE (Main) 1/4 SAE (Aux.)
312	3/8 BSP Dual Cavity

Code	Body Material
Α	Aluminum
S	Steel

Cavity Tooling For 53-1		
Pilot Drill Ø	12.50 (0.49)	
Step Drill	8DS31349	
Reamer (Alum)	8RM31081A	
Reamer (Steel	8RM31081S	
Counterbore		
Тар	8TP31207	

CV

Load/Motor Controls

Flow Controls

LE

MV

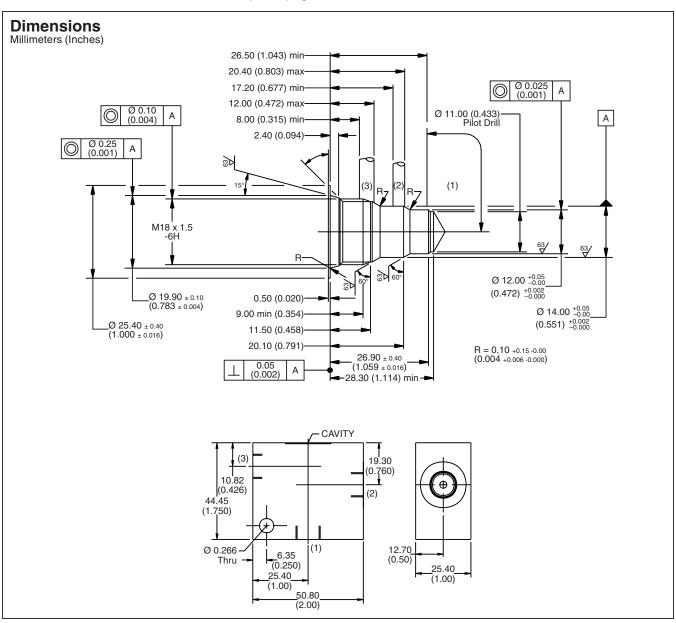
PV

Proportional Valves

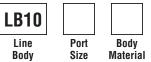
CE

Coils & Electronics

For additional information see Technical Tips on pages BC1-BC6.



BC66



Code	Port Size
591	1/4 SAE
	.,

Code	Body Material
Α	Aluminum
S	Steel

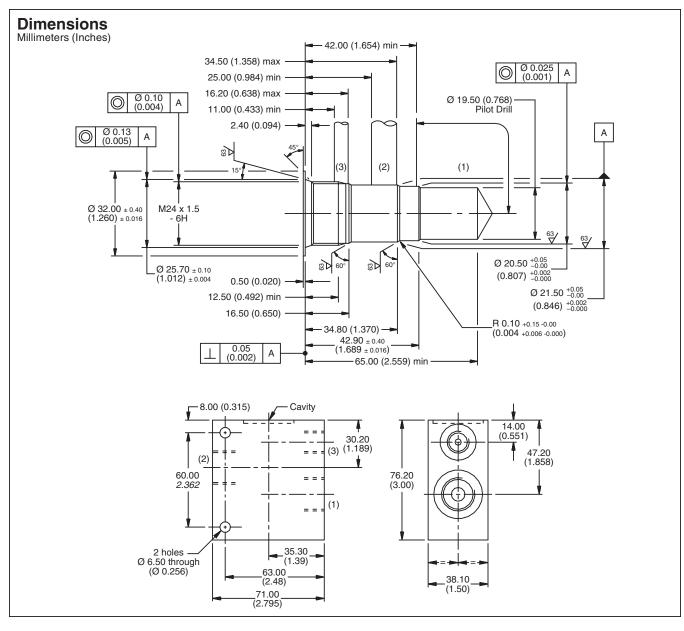
Cavity Tooling For 54-1	
Pilot Drill Ø	11.00 (0.433)
Step Drill	8DS31379
Reamer (Alum)	8RM31087A
Reamer (Steel	8RM31087S
Counterbore	_
Тар	8TP31207

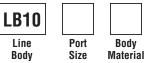
LE

MV

PV

For additional information see Technical Tips on pages BC1-BC6.





Code	Port Size
251	1/2 BSP (Main) 1/4 BSP (Aux.)
253	1/2 SAE (Main) 1/4 SAE (Aux.)

Coae	Body Material
Α	Aluminum
S	Steel

Cavity Tooling For 68-1		
19.50 (0.77)		
8DS31341		
8RM31041A		
8RM31041S		
8CB31116		
8TP31216		

CV

Load/Motor Controls

LE

MV

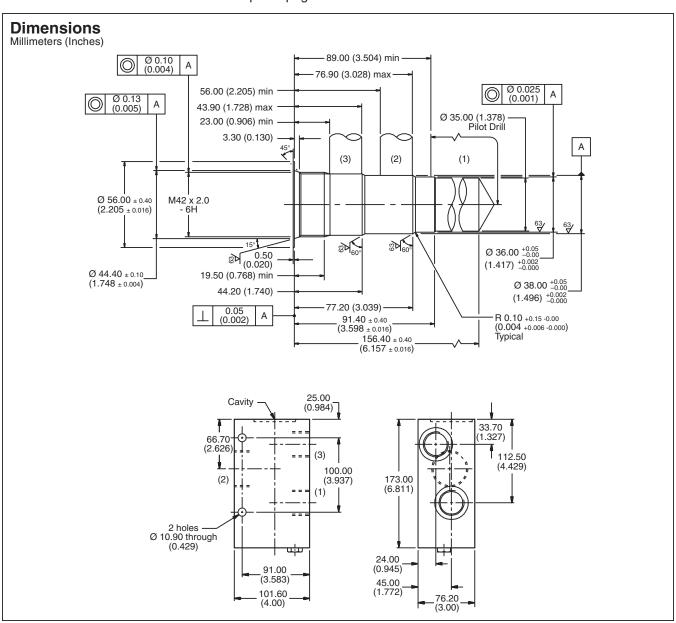
PV

Proportional Valves

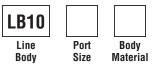
CE

Coils & Electronics

For additional information see Technical Tips on pages BC1-BC6.



BC68



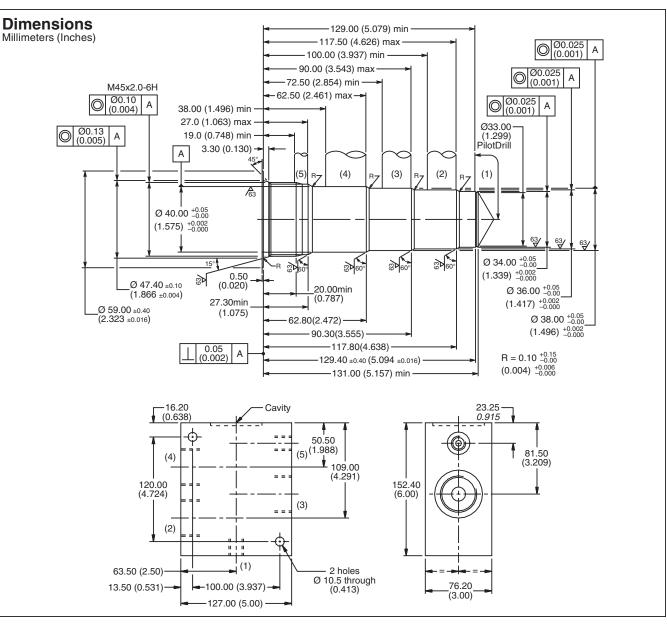
Code	Port Size
156	2 x 1 BSP (Main) 1 x 1-1/2 BSP (Aux.)
157	2 x 1 SAE (Main) 1 x 1-1/2 SAE (Aux.)

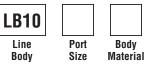
Body Material
Aluminum
Steel

Cavity Tooling For 91-1		
Pilot Drill Ø	35.00 (1.378)	
Step Drill	8DS31332	
Reamer (Alum)	8RM31032A	
Reamer (Steel	8RM31032S	
Counterbore	8CB31118	
Тар	8TP31213	

PV

For additional information see Technical Tips on pages BC1-BC6.





Code	Port Size
316	1-1/4 BSP (Main) 3/8 BSP (Aux)
317	1-1/4 SAE (Main) 3/8 SAE (Aux)

A Alumin	um
S Steel	

Cavity Tooling (100-1 Cavity)		
Pilot Drill Ø	33.00 (1.30)	
Step Drill	8DS31350	
Reamer (Alum)	8RM31050A	
Reamer (Steel	8RM31050S	
Counterbore	8CB31119	
Тар	8TP31218	