

November 05, 2020

Attention: Laura Veal
PARKER HANNIFIN
INSTRUMENTATION PRODUCTS DIV
1005A CLEANER WAY
HUNTSVILLE, AL 35805

The design submission, tracking number 2020-03788, originally received on July 31, 2020 was surveyed and accepted for registration as follows:

CRN : 0C21055.2 **Accepted on:** November 05, 2020
Reg Type: NEW DESIGN **Expiry Date:** November 05, 2030
Drawing No. : CATALOG 4135-CV (PG.6-8) Rev APRIL 2019 As Noted
Fitting type: 3/8" CB SERIES CHECK VALVES

The registration is conditional on your compliance with the following notes:

REV. 2020-11-18

- Please note that this letter supersedes the letter issued on November 5th, 2020. We have corrected catalog number to read 4135-CV.

- All fittings shall be marked as per M.S.S. Standard Practice SP-25. Showing a legible manufacturer's name, trademark or symbol.

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is other engineering analysis, MSS SP-105.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3369 or fax (780) 437-7787 or e-mail Radisavljevic@absa.ca.

Sincerely,



RADISAVLJEVIC, ZANA, P. Tech. (Eng.)
DOP Cert. No. D00003136

**STATUTORY DECLARATION
Registration of Fittings**
Single or Multiple Fitting Designs within one Fitting Category

I, Craig Beckwith, Division General Manager
(name of applicant) (position title) (must be in a position of authority)
of Parker Hannifin Corporation - Instrumentation Products Division
(name of manufacturer)
located at 1005 A Cleaner Way, Huntsville, AL, 35805, USA
(plant address)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.
P

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

- comply with the requirements of _____ which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with MSS-SP-105 as supported by the (title of code of construction or other applicable document) attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

Quality Program Verification and Manufacturing Sites

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	CB Series Check Valves (Size 3/8" only - CB6)	ISO 9001:2015	Design, Manufacture, and Service of Instrumentation Products, Pressure and Temperature Systems, Pneumatic Pumps, Power Supplies, and Anhydrous	April 7, 2021	DNV-GL	2625 AL Hwy 21 N, Jacksonville, AL 36265, USA

In support of this application, the following information, calculations and/or test data are attached:

Scope of Registration and Catalog 4135-CV April 2019

(Signature of the Declarer)

10/28/20

(Date)

DECLARED before me at Huntsville in the Madison County of Alabama

this day of , 2020

(print) (a Commissioner of Oaths or Notary Public)

(sign) (a Commissioner of Oaths or Notary Public)

(expiry date (mm/dd/yy))

Commissioner of Oaths / Notary Public in and for: (province, territory, or state)

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category
CRN:
Registered Date:
Expiry Date: NOV. 5, 2030
Signature: (Signature of the Administrator/SCO)
The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

2020-03788
ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0C21055.2
See acceptance letter for conditions of registration.
Date: 2020-11-05 By: Zana Radisavljevic
ZANA RADISAVLJEVIC, P. Tech. (Eng.)
This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

Table 1 Scope of Fitting Designs**

Item #	Primary Pressure Bearing / Retaining Component	Material of Construction	Port Connections and Size Range	MDMT	Rated Pressure		Pressure Class(es) / Schedule(s)	Design Code(s) of Construction	Reference Catalogue (pages) or Drawing(s)
					At Ambient Temperature	At Maximum Temperature			
CB6 Series	Body	ASTM A276, Type 316	Refer to Catalogue	N/A	Refer to Scope of Registration	Refer to Scope of Registration	Refer to Scope of Registration	MSS-SP-105	4135-CV (6-8)
	Cap	ASTM A276, Type 316	Refer to Catalogue	N/A	Refer to Scope of Registration	Refer to Scope of Registration	Refer to Scope of Registration	MSS-SP-105	4135-CV (6-8)

Table 2 Additional Scope Information

List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.)
Example: Series X Options
See attached scope of registration and catalog pages

** For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

2020-03788

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0C21055.2

See acceptance letter for conditions of registration.

Date: 2020-11-05 By: *Zana Radisavljevic*

ZANA RADISAVLJEVIC, P. Tech. (Eng.)

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Parker Hannifin Corporation
Instrumentation Products Division

Registration Scope

Parker Hannifin
Instrumentation Products Division

Catalog 4135-CV, April 2019, Pages 6-8
CB Series Check Valves

Based on the following summary, we seek registration for the following scope.

Series/Model	Size	Shell Pressure Rating, CWP	Body Material	Cap material
CB6	3/8"	3000 psi	ASTM A 276, Type 316	ASTM A 276, Type 316

Summary

Table 1: Summary Table for the CB6 Series Check Valves

Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure (Shell Pressure Rating)	Design Code of Construction
Body	ASTM A276, Type 316	Refer to End Connection in Table 2 below	3,000 psi CWP	MSS-SP-105

Table 2 below shows the valve part number description from the catalog for the CB Series Check valves. For this valve the valve bodies are available only in one material (ASTM A276 Type 316). The application is for the 3/8" size, designated as 6 in the part number. The minimum wall thickness for all valves in this line is at the undercut of the thread on the valve body.

Table 2: Dimensions and End Connections

CB Series Filter Check Valve					
Basic Part Number	End Connections Inlet & Outlet Port 1 & Port 2	Dimensions		Optional	
		A	B Hex	Crack Pressure	Seal Material
6A-CB6L-1-PC-SS	3/8" A-LOK®	2.72	1.00	5 psi 10 psi 25 psi 50 psi 75 psi 100 psi 120 psi	PF Parkerfill
6Z-CB6L-1-PC-SS	3/8" CPI™				
6A6M-CB6L-1-PC-SS	3/8" A-LOK® x 3/8" Male NPT	2.88			
6Z6M-CB6L-1-PC-SS	3/8" CPI™ x 3/8" Male NPT				
8A-CB6L-1-PC-SS	1/2" A-LOK®	2.78			
8Z-CB6L-1-PC-SS	1/2" CPI™				
8A8M-CB6L-1-PC-SS	1/2" A-LOK® x 3/8" Male NPT	2.88			
8Z8M-CB6L-1-PC-SS	1/2" CPI™ x 3/8" Male NPT				

2020-03788

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0C21055.2

See acceptance letter for conditions of registration.

Date: 2020-11-05 By: *Zana Radisavljevic*

ZANA RADISAVLJEVIC, P. Tech. (Eng.)

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CB Series Check Valve

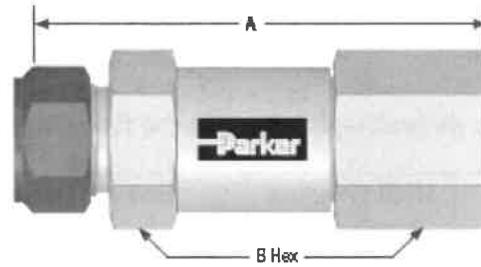
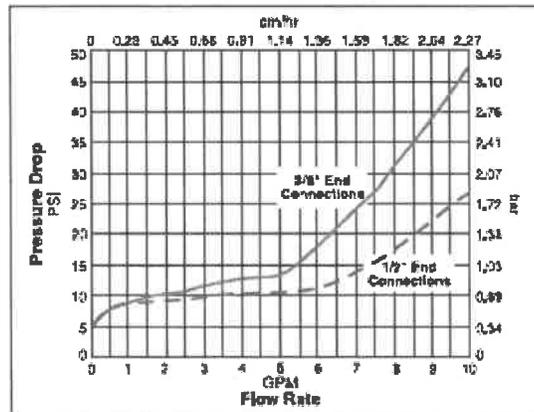


Exhibit 1: Pressure and Temperature Curve and Specifications

CB6 Check Valve

**Flow Rate vs. Pressure Drop
CB-Series Check Valve – Size CB6
5 PSI Crack Pressure**



Specifications

Shell Pressure Rating:
..... 3000 psi CWP

Standard Crack Pressures:
..... 1, 5, 10, 15, 50, 100, 120

Seat Materials, Back Pressure and Temperature Ratings:

Parkerfill.....	1000 psi @ 100°F
.....	300 psi @ 450°F
Parker Carbon.....	2500 psi @ 100°F
.....	1250 psi @ 450°F

Parkerfill is a PTFE copolymer reinforced with carbon and graphite.
Parker Carbon is a PTFE copolymer reinforced with carbon

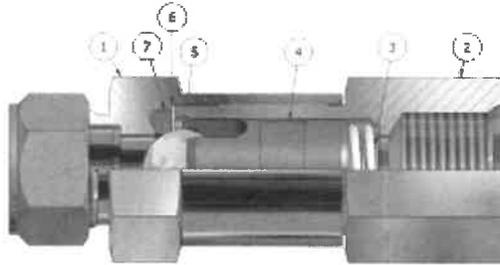
The Cold Working Pressure (CWP) is established by burst testing in accordance with MSS SP-105.



Exhibit 2: Diagram of the Components and the Materials of Construction

Materials of Construction

CB Series Check Valve



Item #	Part	Stainless Valve
1	Body	ASTM A276, Type 316
2	Cap	ASTM A276, Type 316
3	Crack Spring	316 Stainless Steel
4	Ball Cage	ASTM A276, Type 316
5	Ball	440C Stainless Steel
6	Body Washer	316 SS PTFE Coated
7	Seat	Parkerfill, Parker Carbon

Quality System

Parker Hannifin Instrumentation Products Division's quality management system complies with the requirements of ISO 9001:2015. A copy of the current DNV-GL certificate is included in this submission.

2020-03788

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0C21055.2

See acceptance letter for conditions of registration.

Date: 2020-11-05

By: *Zana Radisavljevic*

ZANA RADISAVLJEVIC, P. Tech. (Eng.)

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Check Valves, Filters and Relief Valves

Catalog 4135-CV

April 2019

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



ENGINEERING YOUR SUCCESS.

CB and CBF Series Check Valves

Catalog 4135-CV



Introduction

Parker CB and CBF Series Check Valves are designed for accurate uni-directional flow control of liquids and gases. The unique floating ball is designed for applications in power generation, chemical processing, oil & gas production, and other demanding critical service areas. The CB/CBF Series are specifically targeted to minimize check valve maintenance repair and replacement on dual fuel gas turbines. Specific issues addressed in the design include, but are not limited to seat leakage, coking, repair and maintenance. All of these issues directly affect turbine efficiency and operating costs. The advanced seat materials of the CB/CBF Series Check Valves are particularly well suited for higher temperature applications requiring high integrity leak rates and re-sealing capabilities.

Features

- ▶ Rugged and reliable floating ball design optimizes sealing characteristics in demanding turbine applications
- ▶ Hard PTFE coated ball cage resists poppet “stick” commonly experienced with fuel oil coking.
- ▶ Fully field serviceable with Parker rebuild kits. Replace seats in minutes without special tools.
- ▶ Advanced reinforced PTFE copolymer seat materials designed by Parker for demanding applications such as air purge and fuel oil.
- ▶ Integral “last chance” filter option for seat and nozzle protection.
- ▶ To even further reduce turbine downtime during repairs, utilize Parker’s metal flexible hoses.

Specifications

Shell Pressure Rating:

..... 3000 psi CWP

Standard Crack Pressures:

..... 1, 5, 10, 15, 50, 100, 120

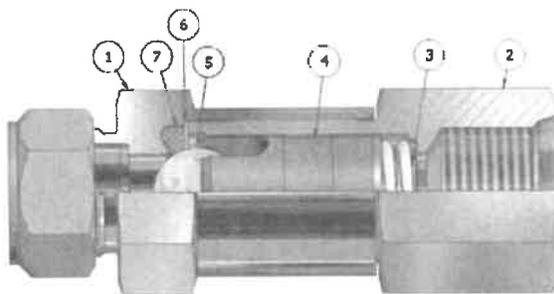
Seat Materials, Back Pressure and Temperature Ratings:

Parkerfill..... 1000 psi @ 100°F
 300 psi @ 450°F
 Parker Carbon 2500 psi @ 100°F
 1250 psi @ 450°F

Parkerfill is a PTFE copolymer reinforced with carbon and graphite.
 Parker Carbon is a PTFE copolymer reinforced with carbon.

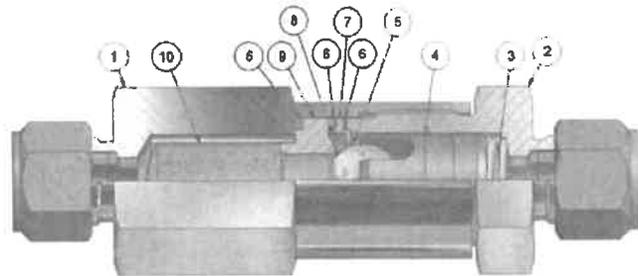
Materials of Construction

CB Series Check Valve



Item #	Part	Stainless Valve
1	Body	ASTM A276, Type 316
2	Cap	ASTM A276, Type 316
3	Crack Spring	316 Stainless Steel
4	Ball Cage	ASTM A276, Type 316
5	Ball	440C Stainless Steel
6	Body Washer	316 SS PTFE Coated
7	Seat	Parkerfill, Parker Carbon

CBF Series Filter Check Valve



Item #	Part	Stainless Valve
1	Cap	ASTM A276, Type 316
2	Body	ASTM A276, Type 316
3	Crack Spring	316 Stainless Steel
4	Ball Cage	ASTM A276, Type 316 Hard PTFE Coated
5	Ball	440C SS
6	Body Seal	Grafoil®
7	Seat Retainer	316 Stainless Steel
8	Seat	Parkerfill, Parker Carbon
9	Filter Base	316 Stainless Steel
10	Filter Element	Perforated 316 SS Sheet

Grafoil® is a registered trademark of GrafTech International Holdings, Inc.

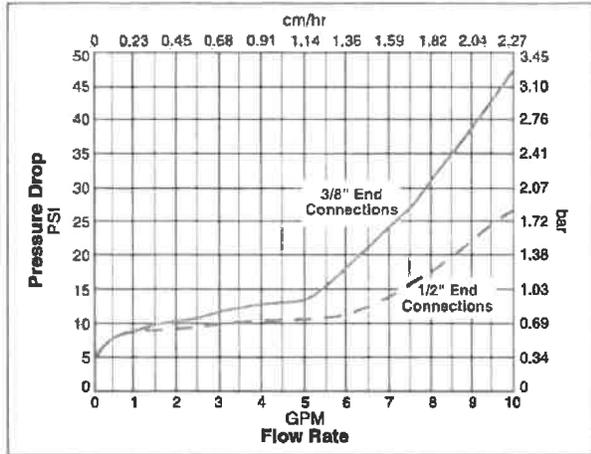


CB and CBF Series Check Valves

Flow Curves

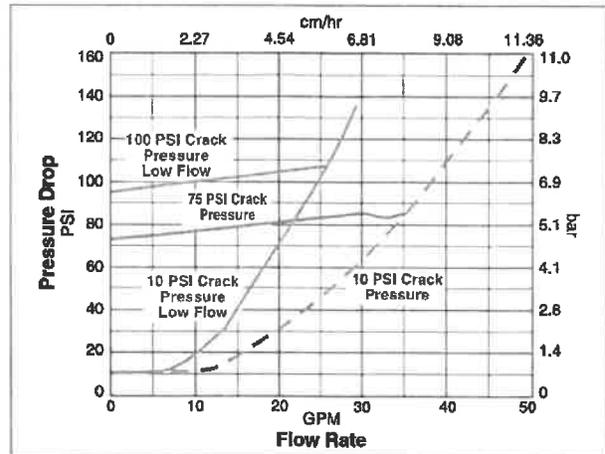
CB6 Check Valve

**Flow Rate vs. Pressure Drop
CB-Series Check Valve – Size CB6
5 PSI Crack Pressure**



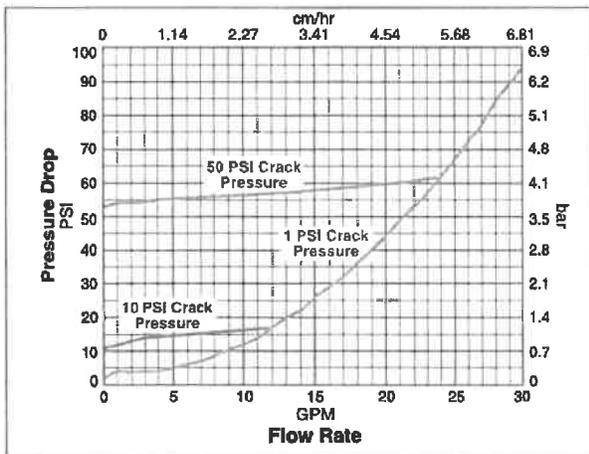
CB12 Check Valve

**Flow Rate vs. Pressure Drop
CB-Series Check Valve – Size CB12
3/4 inch End Connections**



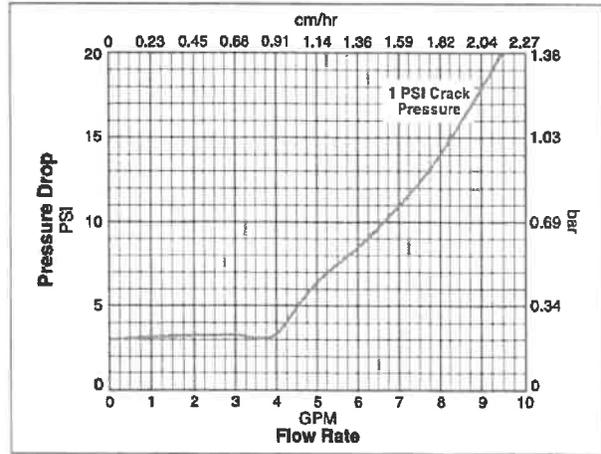
CB8 Check Valve

**Flow Rate vs. Pressure Drop
CB-Series Check Valve – Size CB8
1/2 inch End Connections**



CBF8 Filter Check Valve

**Flow Rate vs. Pressure Drop
CB-Series Check Valve – Size CBF8
1/2 inch End Connections – 380 Micron Filter**



CB and CBF Series Check Valves

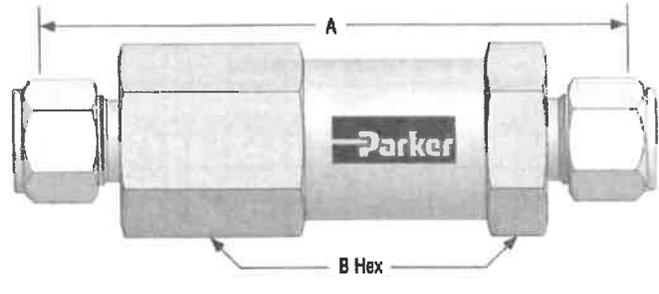
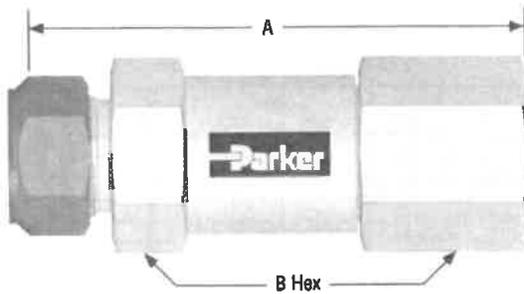
Dimensions

Dimensions in inches (millimeters) are for reference only, subject to change.

CB Series Check Valve

CBF Series Filter Check Valve

CB
CBF



CB Series Filter Check Valve

Basic Part Number	End Connections Inlet & Outlet Port 1 & Port 2	Dimensions		Optional		
		A	B Hex	Crack Pressure	Seat Material	
6A-CB6L-1-PC-SS	3/8" A-LOK®	2.72	1.00	5 psi 10 psi 25 psi 50 psi 75 psi 100 psi 120 psi	PF Parkerfill	
6Z-CB6L-1-PC-SS	3/8" CPI™					
6A6M-CB6L-1-PC-SS	3/8" A-LOK® x 3/8" Male NPT	2.88				
6Z6M-CB6L-1-PC-SS	3/8" CPI™ x 3/8" Male NPT	2.78				
8A-CB6L-1-PC-SS	1/2" A-LOK®					
8Z-CB6L-1-PC-SS	1/2" CPI™	2.98				
8A8M-CB6L-1-PC-SS	1/2" A-LOK® x 3/8" Male NPT					
8Z8M-CB6L-1-PC-SS	1/2" CPI™ x 3/8" Male NPT	3.30				
8A-CB8L-1-PC-SS	1/2" A-LOK®					1.25
8Z-CB8L-1-PC-SS	1/2" CPI™					
8A8G5-CB8L-1-PC-SS	1/2" A-LOK® x 1/2" Female SAE		3.44			
8Z8G5-CB8L-1-PC-SS	1/2" CPI™ x 1/2" Female SAE		3.48			
8X8G5-CB8L-1-PC-SS	1/2" Male JIC 37° Flare x 1/2" Female SAE					
10A-CB8L-1-PC-SS	5/8" A-LOK®	3.56	1.375			
10Z-CB8L-1-PC-SS	5/8" CPI™	3.56				
12A-CB12L-1-PC-SS	3/4" A-LOK®			3.84		
12Z-CB12L-1-PC-SS	3/4" CPI™	4.12				
12A12G5-CB12L-1-PC-SS	3/4" A-LOK® x 3/4" Female SAE			3.84		
12Z12G5-CB12L-1-PC-SS	3/4" CPI™ x 3/4" Female SAE	4.12				
12X12G5-CB12L-1-PC-SS	3/4" Male JIC 37° Flare x 3/4" Female SAE					

CBF Series Filter Check Valve

Basic Part Number	End Connections Inlet Port	Dimensions		Optional	
		A	B Hex	Crack Pressure	Seat Material
8A-CBF8L-1-PC-SS-380	1/2" A-LOK®	4.50	1.375	5 psi 10 psi 25 psi 50 psi 75 psi 100 psi 120 psi	PF Parkerfill
8Z-CBF8L-1-PC-SS-380	1/2" CPI™				
8A8G5-CBF8L-1-PC-SS-380	1/2" A-LOK® x 1/2" Female SA	4.70			
8Z8G5-CBF8L-1-PC-SS-380	1/2" CPI™ x 1/2" Female SA				
10A-CBF8L-1-PC-SS-380	5/8" A-LOK®	4.75			
10Z-CBF8L-1-PC-SS-380	5/8" CPI™				
12A-CBF8L-1-PC-SS-380	3/4" A-LOK®	4.75			
12Z-CB8FL-1-PC-SS-380	3/4" CPI™				



NOTE:

- IF THIS COMPONENT IS MADE FROM NON-STANDARD MATERIAL, THE HEX SIZE CAN VARY ACCORDING TO AVAILABLE STOCK. IF ROUND STOCK IS USED, TURN OD TO $\phi 1-3/16$ AND 1" FLATS MUST BE MACHINED ONTO THE COMPONENT. IN ADDITION, THE HEAT CODE SHALL BE MARKED ON THE COMPONENT MADE FROM ROUND STOCK.
- 45° IS AN ACCEPTABLE ALTERNATIVE FOR THE HEX CHAMFER.

E.C.N. No.	REV. LTR.	CHANGES	DATE
M00059	-	RELEASE	02/11/00
M00413	A	ES2040 WAS ES2300 OR ES2020	11/27/00
M02450	B	ADDED 1.36	01/06/03
M06070	C	REMOVED CAP DIMS; ADDED MS1043-6 AND NOTE #2	06/19/06
M07121	D	002024 WAS 000024	12/04/07

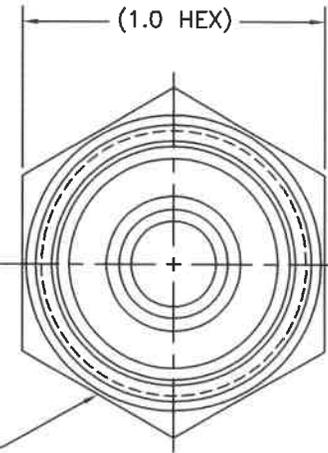
MS1124-6 (IPD)
 $\phi .285/.277$ THRU

$\phi .298$ MAX X 60°
CHMF

CHAMFER 15°
X $\phi .97/1.00$
TYP.

1.87

MS1043-6 (IPD)



PERMANENTLY MARK
CENTERED ON ONE
FLAT, NON-STANDARD
MAT'L DESIGNATOR:
M OR HC

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DIMENSIONING PER ANSI Y14.5M-1994			
SCALE	2.5/1	DRAWN BY	ECL
		DATE	02/11/00
CHECKED BY	KER	DATE	02/11/00
		APPR'D BY	JHT
		DATE	02/11/00

- UNLESS OTHERWISE SPECIFIED
- ALL DIMENSIONS ARE IN INCHES.
 - TOLERANCES AS FOLLOWS:
FRACTIONS ±.015
2 PLACE DECIMALS (.00) ±.010
3 PLACE DECIMALS (.000) ±.005
ANGLES ±1/2°
 - PARTS MUST CONFORM TO ES1010

TITLE

6Z-C6T-*

Parker Parker Hannifin Corporation
Instrumentation Products Division
2851 Alabama Highway 21 North
Jacksonville, FL 32256-9981 USA

DRAWING NUMBER	REV
002024	D

* TO COMPLETE NOMENCLATURE, INSERT
THE PROPER MATERIAL DESIGNATOR:

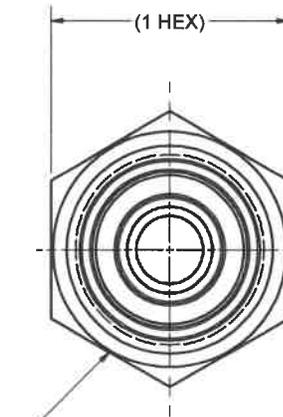
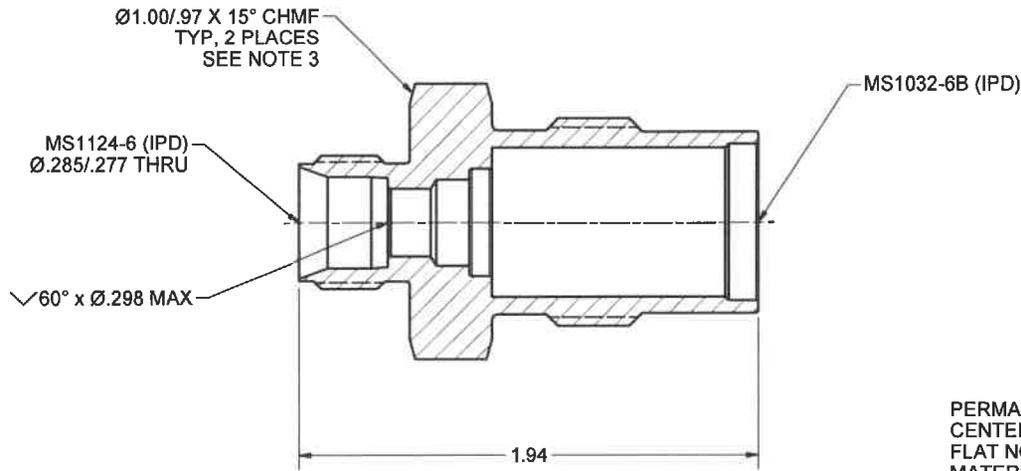
- SS = 316SS (ES2040)
- M = MONEL (ES3410)
- HC = HASTELLOY (ES3420)

MATERIAL	STOCK	HEAT TREAT	FINISH
ES3420	1.0 HEX	-----	ES5008
ES3410	$\phi 1-1/2$	-----	ES5007
ES2040	1.0 HEX	-----	ES5001

NOTE:

1. THE HEAT CODE MUST BE MARKED ON ALL COMPONENTS. MARKING TO OCCUR ON THE HEX OR MACHINED FLATS.
2. IF THIS COMPONENT IS MADE FROM NON-STANDARD MATERIAL THE HEX SIZE CAN VARY ACCORDING TO AVAILABLE STOCK. IF ROUND STOCK IS USED, TURN THE O.D. TO Ø1 3/16 AND 1 IN FLATS MUST BE MACHINED ONTO THE COMPONENT.
3. 45° IS AN ACCEPTABLE ALTERNATIVE FOR HEX CHAMFER.

REVISION HISTORY			
ECN No.	REV	CHANGES	DATE
IV95436	O	REDRAWN ON AUTOCAD & ADDED NOTES AND MAT'L (6MO)	01/24/96
IV96217	P	MATERIAL TI ADDED	04/22/96
IV96607	Q	ADDED NOTE REGARDING HEAT CODE	01/02/97
IV04096	R	ADDED MS1032-6B	07/07/04
	S	SKIPPED BY PM	07/29/04
IV04107	T	ADDED NOTE #2	07/29/04
IV11030	U	TITLE CHANGE: WAS 6Z-C6L-*##; ADDED SS20; REMOVED 2040 WITH ES5010; REMOVED Ø.359; STANDARDIZED NOTES; REDRAWN IN INVENTOR	02/21/11



PERMANENTLY MARK, CENTERED ON ONE FLAT NON-STANDARD MATERIAL DESIGNATOR: M, HC, 6MO, TI, OR SS20

* TO COMPLETE NOMENCLATURE, INSERT THE PROPER MATERIAL DESIGNATOR:

- SS = 316SS (ES2040)
- B = BRASS (ES3250)
- M = MONEL (ES3410)
- HC = HASTELLOY (ES3420)
- 6MO = 6MO (ES2260)
- TI = TITANIUM (ES2410)
- SS20 = CARPENTER 20 (ES2080)

ES2080	Ø1 1/2	----	ES5006
ES2410	Ø1 1/2	----	ES5009
ES2260	Ø1 1/2	----	ES5006
ES3420	Ø1 1/2	----	ES5008
ES3410	1 HEX	----	ES5007
ES3250	1 HEX	----	ES5002
ES2040	1 HEX	----	ES5006

MATERIAL	STOCK	HEAT TREAT	FINISH
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DIMENSIONING PER ANSI Y14.5M-1994			
SCALE	DATE	DRAWN BY	DATE
2/1		RMC	1/26/1989
CHECKED BY	DATE	APPROVED BY	DATE
LDN	2/3/1989	JHT	2/3/1989
TITLE:			
6Z-C6L-*			

UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES.
2. TOLERANCES AS FOLLOWS:
FRACTIONS ± .015
2 PLACE DECIMALS ± .010
3 PLACE DECIMALS ± .005
ANGLES ± 1/2°
3. PARTS MUST CONFORM TO ES1010.

Parker Corporation
Instrumentation Products Division
3555 Alabama Highway 21 North
Jacksonville, AL 36205-9681 USA

DRAWINGS NUMBER	REV
770792	U