

PROPRIETARY AND CONFIDENTIAL

Description

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1/8" Hose Barb, Valved Panel Mount Hose Barb Socket Thumb-Latch Type Coupling, 1/8" Flow, Chrome Plated Brass Body and Terminations, Acetal Internal Valve, Buna-N O-ring Seal, Stainless Steel Thumb-Latch, Springs and Pins, 5/8" 1/2"-24 UNS Nickel Plated Brass Panel Nut

NAME DATE  
 DRAWN BY: SCW 09-Feb-15

PART# 20CBV-SB3-02 REV 1

SHEET 1 OF 3

SCALE 2.5:1

DO NOT SCALE DRAWING



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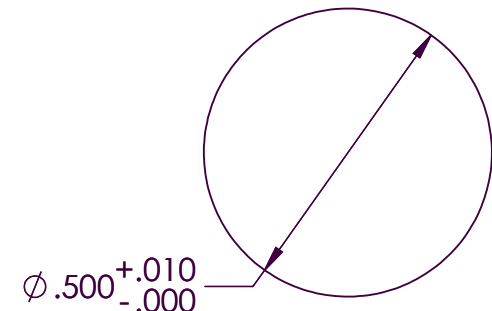
# Specifications

Body and Termination Material	FDA Compliant Chrome Plated Brass
Internal Valve Material	Acetal (POM)
Internal Valve Spring	316 Stainless Steel
Seal Material Option	FDA & NSF Compliant Buna-N O-ring Seal
Thumb-latch Material	301 Stainless Steel
Thumb-latch Spring Material	304 Stainless Steel
Pin Material	316 Stainless Steel
Pin Spring Material	302 Stainless Steel
Panel Mount Nut	5/8" 1/2"-24UNS Electrodeposited Nickel Plated Brass
Operating Pressure Range	Vacuum to 250 psi (17.3 bar)
Operating Temperature Range	-40° F to 180° F (-40° C to 82° C)
Flow Capacity	1/8" Size
Tube Size	1/8" ID, 3.2mm ID
Compatibility Statement	<p>It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products.</p> <p>Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.</p>

## Panel Mount Dimensions

	PANEL OPENING	MAX PANEL THICKNESS	MIN PANEL THICKNESS
SOCKETS	Per Drawing	0.5"	0.05"
PLUGS	0.5"	0.3"	0.05"

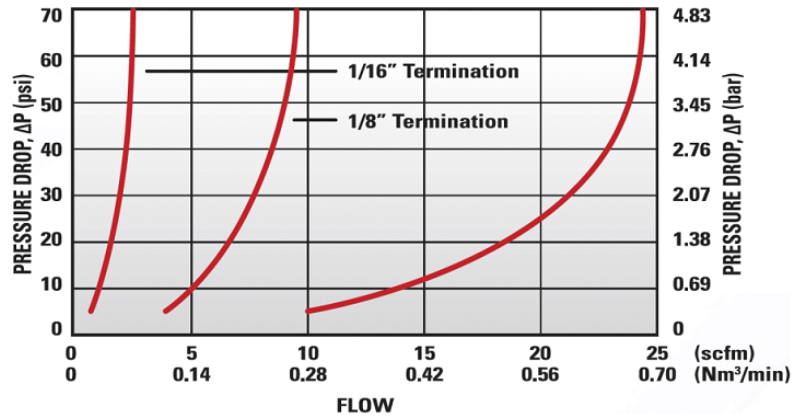
PANEL NUT HEX SIZE	PANEL NUT THREAD
5/8"	1/2" - 24UNS



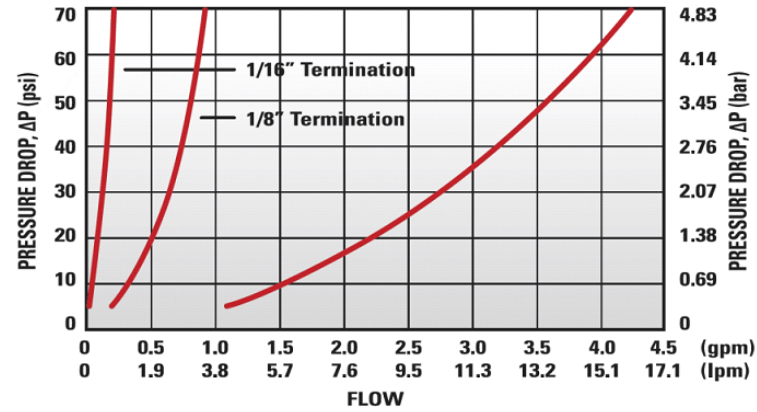
20CBV-SB3-02

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## 20PP Series Air Flow



## 20PP Series Water Flow



Specific coupling combination flow rates can be determined by using this formula:

$$Q = C_v \times \text{SQRT}(\Delta P / S)$$

$\text{SQRT}$  = Square root  
 $Q$  = Flow rate in gallons per minute  
 $C_v$  = Average flow rate (see chart)  
 $\Delta P$  = Pressure drop across coupling (psi)  
 $S$  = Specific gravity of liquid

### $C_v$ Values for the 20CBV-SB3-02

#### Valved In-line Hose Barb Socket Coupling

Plugs:	20CBV-PB2-02	20CB-PB2-02	20CBV-PB2-03	20CB-PB2-03	20CBV-PB2-04	20CB-PB2-04	20CBV-PB9-04
20CBV-SB3-02	0.14	0.17	0.14	0.18	0.15	0.19	0.15

Plugs:	20CB-PB9-04	20CBV-PB1-02	20CB-PB1-02	20CBV-PB1-04	20CB-PB1-04	20CBV-PB4-04	20CB-PB4-04
20CBV-SB3-02	0.19	0.18	0.18	0.15	0.18	0.15	0.19