

PROPRIETARY AND CONFIDENTIAL

Description

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1/4" OD Tube Size, Valved Panel Mount PTF Thumb-Latch Type Socket 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, Chrome Plated Brass PTF Nut, 5/8" 1/2"-24 UNS Nickel Plated Brass Panel Nut

NAME DATE
DRAWN BY: SCW 12-Feb-2015

PART# REV
20CBV-SB8-04 1

SHEET 1 OF 3

SCALE 2.5:1

DO NOT SCALE DRAWING



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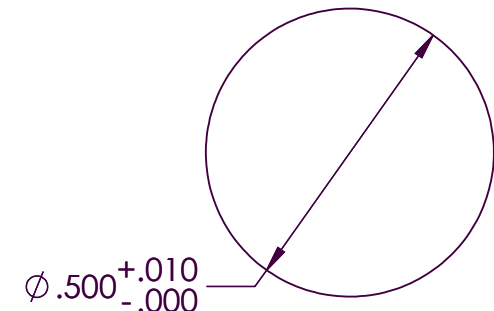
Specifications

Body and Termination Material	FDA Compliant Chrome Plated Brass
Internal Valve Material	Acetal (POM)
Seal Material Option	FDA and NSF Compliant Buna-N O-ring Seal
Internal Valve Spring Material	316 Stainless Steel
Thumb-latch Material	301 Stainless Steel
Thumb-latch Spring Material	304 Stainless Steel
Pin Material	316 Stainless Steel
Pin Spring Material	302 Stainless Steel
PTF (Ferrules Polytube Fitting) Nut	Electrodeposited Nickel Plated Brass
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	1/4" OD, .17" ID
Metric Tube Size	6.4mm OD, 4.3mm 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"

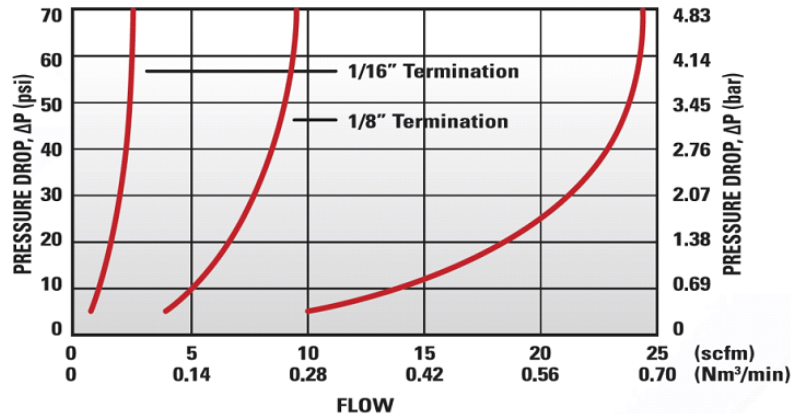
PANEL NUT HEX SIZE	PANEL NUT THREAD
5/8"	1/2" - 24UNS



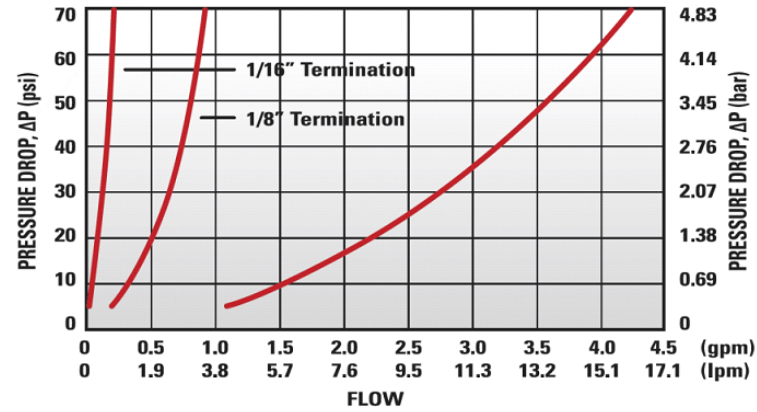
20CBV-SB8-025

SHEET 2 OF 3

20PP Series Air Flow



20PP Series Water Flow



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

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

SQRT = Square root
 Q = Flow rate in gallons per minute
 C_v = Average flow rate (see chart)
 ΔP = Pressure drop across coupling (psi)
 S = Specific gravity of liquid

C_v Values for the 20CBV-SB8-04 Valved Panel Mount PTF 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-SB8-04	0.16	0.20	0.16	0.21	0.17	0.22	0.17

Plugs:	20CB-PB9-04	20CBV-PB1-02	20CB-PB1-02	20CBV-PB1-04	20CB-PB1-04	20CBV-PB4-04	20CB-PB4-04
20CBV-SB8-04	0.21	0.17	0.21	0.17	0.21	0.18	0.22