

PROPRIETARY AND CONFIDENTIAL

Description

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1/4" OD Tube Size,
Valved In-Line PTF Plug Coupling, 1/8" Flow,
Chrome Plated Brass Body and Terminations,
Nickel Plated Brass PTF Nut,
Acetal Internal Valve, Buna-N O-Ring Seals,
Stainless Steel Internal Spring

NAME: SCW DATE: 24-Feb-2015

PART# 20CBV-PB9-04 REV 1

SHEET 1 OF 3

SCALE 3:1

DO NOT SCALE DRAWING

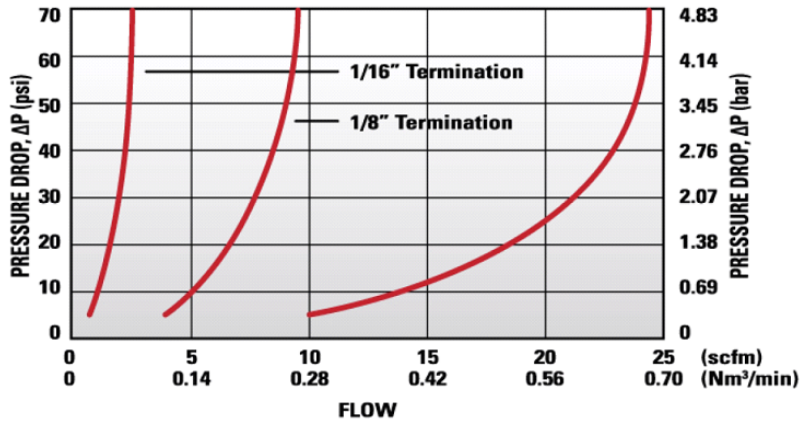


Industrial Specialties Mfg.
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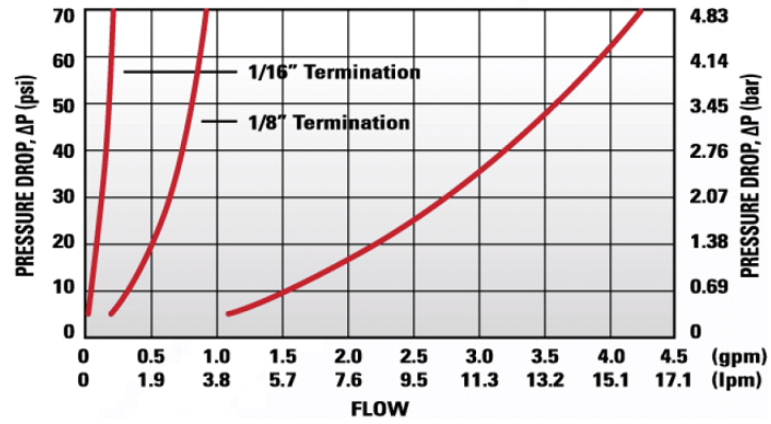
Specifications

| | |
|-------------------------------------|---|
| Body and Termination Material | Food Grade Chrome Plated Brass |
| PTF (Ferrules Polytube Fitting) Nut | Electrodeposited Nickel Plated Brass |
| Tube Size | 1/4" OD, .17" ID |
| Metric Tube Size | 6.4mm OD, 4.3mm ID |
| Internal Valve Material | Acetal (POM) |
| Internal Valve Spring | 316 Stainless Steel |
| Seal Material Option | FDA & NSF Compliant Buna-N O-ring Seals |
| 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 |
| Barb Size | 1/8", 3.2mm |
| 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> |

20CB Series Air Flow



20CB 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-PB9-04

Valved PTF Plug Coupling

| Sockets: | 20CBV-SB2-04 | 20CB-S2-04 | 20CBV-SB3-02 | 20CB-S3-02 | 20CBV-SB3-04 | 20CB-S3-04 |
|--------------|--------------|------------|--------------|------------|--------------|------------|
| 20CBV-PB9-04 | 0.17 | 0.24 | 0.15 | 0.15 | 0.17 | 0.23 |

| Sockets: | 20CBV-SB8-04 | 20CB-S8-04 | 20CBV-SB1-02 | 20CB-S1-02 | 20CBV-SB1-04 | 20CB-S1-04 |
|--------------|--------------|------------|--------------|------------|--------------|------------|
| 20CBV-PB9-04 | 0.17 | 0.18 | 0.18 | 0.18 | 0.19 | 0.21 |