

PROPRIETARY AND CONFIDENTIAL

Description

1/4" NPT Male Thread Socket, Valved Thumb-Latch Type Coupling, 1/4" Flow, Chrome Plated Brass Body and Terminations, Acetal Internal Valve, Stainless Steel Thumb-Latch, External Springs and Pin, Buna-N O-Ring Seal

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NAME DATE
DRAWN BY: SCW 08-APR-2016

PART#

40CBV-SB1-04

REV
1

SHEET 1 OF 3

SCALE 3 : 1

DO NOT SCALE DRAWING

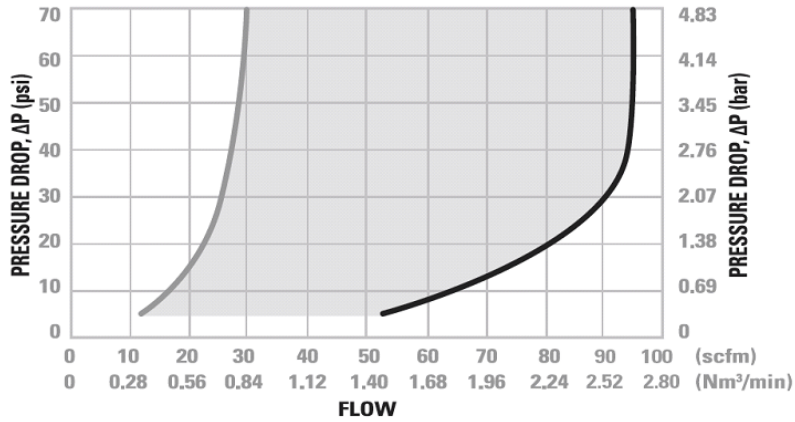


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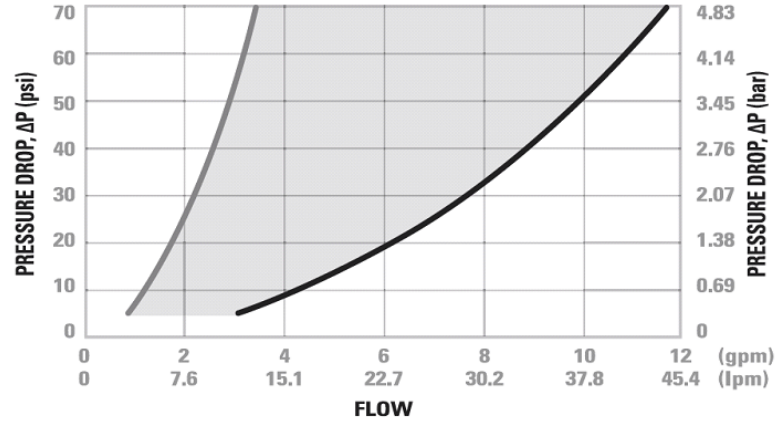
Specifications

| | |
|-------------------------------|---|
| Body and Termination Material | NSF Food Contact Compliant Chrome Plated Brass |
| Internal Valve Material | Acetal (POM) |
| Internal Valve Spring | 316 Stainless Steel |
| Seal Material Option | FDA and 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 |
| 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 | 1/4" Size |
| Thread Size | 1/4" NPT (American National Standard Taper Pipe Thread) |
| 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> |

40CB Series Air Flow



40CB Series Water Flow



■ Valved Socket & Plug



■ Valved & Non-Valved Coupling Set



■ Non-Valved Socket & Plug



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 40CBV-SB1-04

Valved Male Thread Socket Coupling

| | | | | | | |
|--------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| Plugs: | 40CBV- PB2-04 | 40CB- PB2-04 | 40CBV- PB2-06 | 40CB- PB2-06 | 40CBV- PB9-04 | 40CB- PB9-04 |
| 40CBV-SB1-04 | 0.41 | 0.65 | 0.50 | 0.81 | 0.31 | 0.35 |

| | | | | | | |
|--------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| Plugs: | 40CBV- PB9-06 | 40CB- PB9-06 | 40CBV- PB1-04 | 40CB- PB1-04 | 40CBV- PB1-06 | 40CB- PB1-06 |
| 40CBV-SB1-04 | 0.48 | 0.74 | 0.45 | 0.80 | 0.45 | 0.80 |