

PROPRIETARY AND CONFIDENTIAL

Description

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INDUSTRIAL SPECIALTIES MFG. AND IS MED SPECIALITES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF INDUSTRIAL SPECIALTIES MFG. AND IS MED SPECIALITES IS PROHIBITED.

1/4" Male NPT Thread,  
Non-Valved Male Thread Plug Coupling,  
1/4" Flow,  
Natural Acetal Body and Terminations,  
Buna-N O-Ring Seal

NAME DATE  
DRAWN BY: SCW 01-JUN-2016

PART# 50AC-PB1-04

REV 1

SHEET 1 OF 3

SCALE 7 : 2

DO NOT SCALE DRAWING

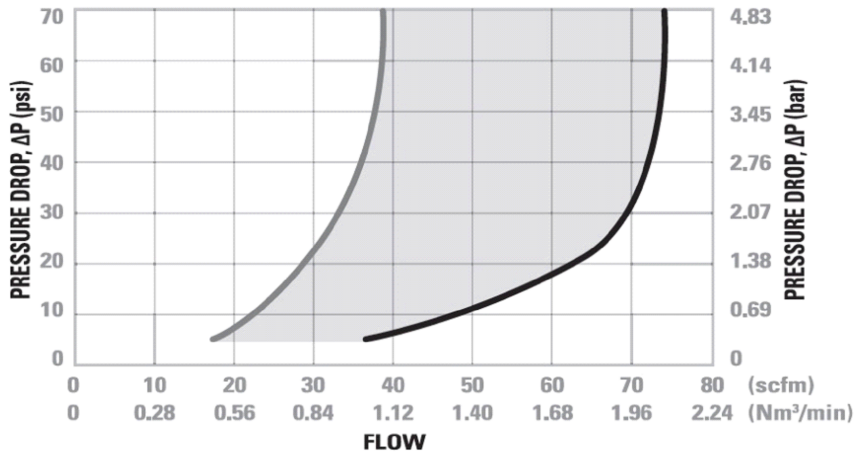


**Industrial Specialties Mfg.**  
**IS Med Specialties**

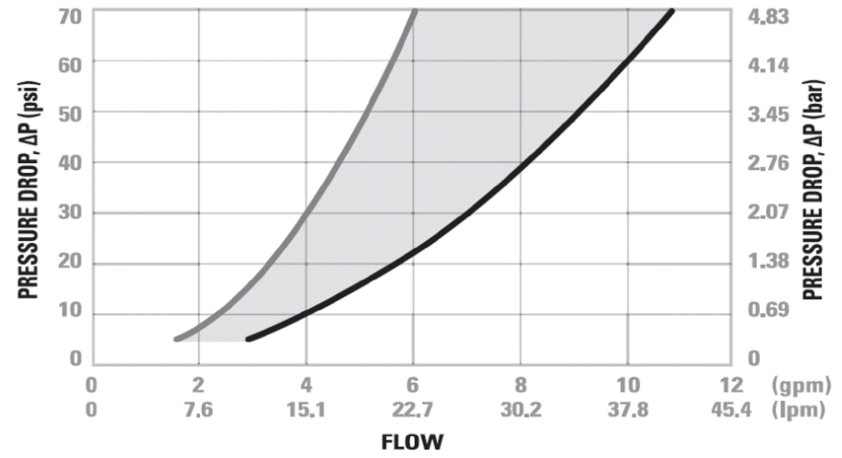
# Specifications

Body and Termination Material	Natural Acetal (POM) - FDA and NSF Compliant for Food Contact
Seal Material Option	Buna-N O-ring - FDA and NSF Compliant for Food Contact O-rings lubricated with Dow Corning 200 food grade silicone oil.
Operating Pressure Range	Vacuum to 120 psi (8.3 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>

### 50AC Series Air Flow



### 50AC 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<sub>v</sub> = Average flow rate (see chart)  
 ΔP = Pressure drop across coupling (psi)  
 S = Specific gravity of liquid

### C<sub>v</sub> Values for the 50AC-PB1-04

#### Non-Valved Male Thread Plug Coupling

Sockets:	50ACV-SB2-04	50AC-S2-04	50ACV-SB2-06	50ACV-S2-06	50ACV-SB3-04	50AC-SB3-04
50AC-PB1-04	0.56	0.84	0.83	1.40	0.35	0.40

Sockets:	50ACV-SB3-06	50AC-S3-06	50ACV-SB1-04	50AC-S1-04	50ACV-SB1-06	50AC-S1-06
50AC-PB1-04	0.58	1.04	0.75	1.40	0.78	1.40