

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" Hose Barb, Non-Valved Thumb-Latch Type  
Hose Barb Socket Coupling,  
Short Body, 1/4" Flow,  
Natural Acetal Body and Terminations,  
Gray Acetal Thumb-Latch,  
Stainless Steel Latch Spring

NAME	DATE
DRAWN BY: SCW	05-MAY-2016

PART#	REV
50AC-S2-04	1

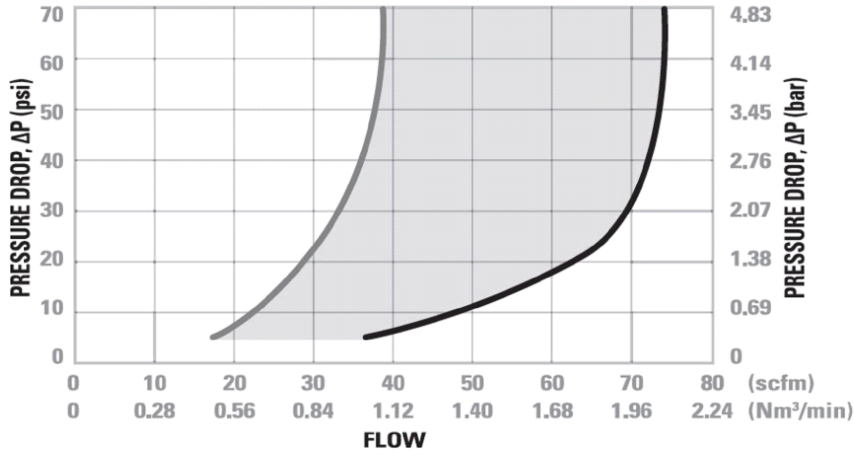
SHEET 1 OF 3  
50AC-S2-04  
DO NOT SCALE DRAWING



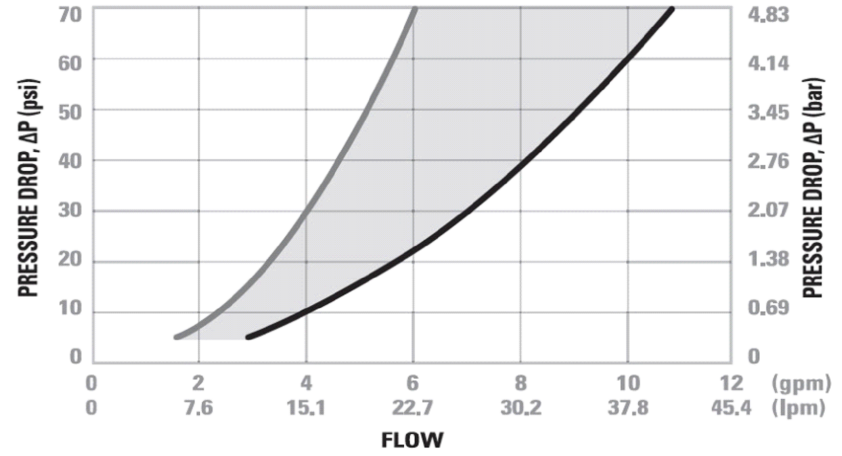
# Specifications

Body and Termination Material	Natural Acetal (POM) - FDA and NSF Compliant for Food Contact
Thumb Latch Material	Gray Acetal (POM)
Thumb Latch Spring Material	304 Stainless Steel
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
Barb Size	1/4" ID, 6.4mm 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>

### 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-S2-04 Non-Valved In-Line Hose Barb Socket Short Body Coupling

Plugs:	50ACV-PB2-04	50AC-PB2-04	50ACV-PB2-06	50AC-PB2-06	50ACV-PB9-04	50AC-PB9-04
50AC-S2-04	0.52	0.95	0.70	1.00	0.38	0.39

Plugs:	50ACV-PB9-06	50AC-PB9-06	50ACV-PB1-04	50AC-PB1-04	50ACV-PB1-06	50AC-PB1-06
50AC-S2-04	0.55	0.87	0.65	0.95	0.65	1.00