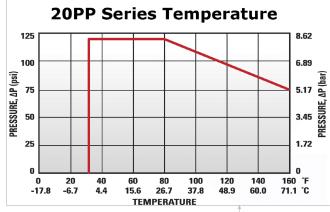


PROPRIETARY AND CONFIDENTIAL	Description		NAME	DATE	PART#		REV
THE INFORMATION CONTAINED IN THIS	1/8" NPT Male Thread Valved Plug Coupling,	DRAWN BY:	SCW	27-Jan-15	20P	PV-PE1-02MALD	1
DRAWING IS THE SOLE PROPERTY OF INDUSTRIAL SPECIALTIES MFG. AND IS MED SPECIALITES. ANY REPRODUCTION	1/8" Flow, Almond Polypropylene Body, Terminations	SHEET 1 OF 3					
IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF INDUSTRIAL SPECIALTIES MFG. AND	and Internal Valve, Stainless Steel Internal Valve Spring,	SCALE 3:1		Industrial Specialties  IS Med Specialties		s Mfg.	
IS MED SPECIALITES IS PROHIBITED.	Peroxide-cured EPDM O-ring Seals		NOT SCALE	DRAWING		10 Med Opecialities	

5 4 2

# **Specifications**

Body and Termination Material	Medical Grade Polypropylene				
Standard Color Option	Almond				
Seal Material Option	Peroxide-cured EPDM O-ring Seals				
Internal Valve Material	Medical Grade Polypropylene				
Internal Valve Spring Material	316 Stainless Steel				
Operating Pressure Range	Vacuum to 120 psi (8.3 bar)				
Operating Temperature Range	32°F to 160°F (0°C to 71°C)				
Flow Capacity	1/8" Size				
Thread Size	1/8" NPT				
Sterilization	Gamma; 50 kGy irradiation max				
	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.				
Compatibility Statement	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.				



20PP Series Medical Grade Polypropylene Sterilization and Disinfectant Compatibility

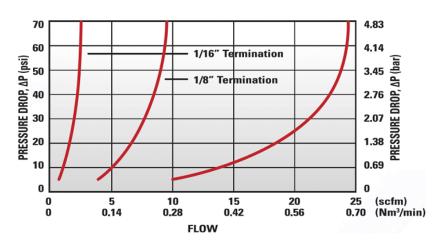
Formalin	Isopropyl		Ethylene Oxide (EtO)		
	Alcohol	Alcohol			
Excellent	Excellent	Excellent	Excellent		

1	Autoclave	E-Beam (50 kGy)	Gamma 5 Mrad (50kGy)	Dry Heat (250° F)	
С	Do Not Use	Excellent	Excellent	Do Not Use	

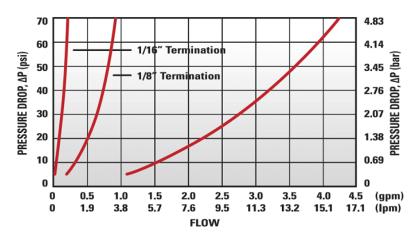
20PPV-PE1-02MALD SHEET 2 OF 3

4 3

## **20PP Series Air Flow**



### 20PP Series Water Flow



These graphs are intended to give you a general idea of the performance capabilities of the product line.

 $Q = C_v \times SQRT(\Delta P/S)$  Specific coupling combination flow rates can be determined by using this formula:  $Q = C_v \times SQRT(\Delta P/S)$  SQRT = Square root Q = Flow rate in gallons per minute  $C_v = Average flow rate (see chart)$   $\Delta P = Pressure drop across coupling (psi)$  S = Specific gravity of liquid

#### C<sub>v</sub> Values for the 20PPV-PE1-02MALD

#### Valved Male Thread Plug Coupling

		,  -					
Valvos	20PPV-	20PP-	20PPV-	20PP-	20PPV-	20PP-	20PPV-
Valves:	SE2-01	S2-01	SE2-04	S2-04	SE3-02	S3-02	SE3-04
20PPV-PE1-02MALD	0.03	0.03	0.19	0.20	0.18	0.15	0.19

Valvos	20PP-	20PPV-	20PP-	20PPV-	20PP-	20PPV-	20PP-
Valves:	S3-04	SE8-04	S8-04	SE1-02	S1-02	SE1-04	S1-04
20PPV-PE1-02MALD	0.20	0.17	0.16	0.20	0.20	0.21	0.20

20PPV-PE1-02MALD SHEET 3 OF 3

4

- 3

2

.