

# 20CB Series Couplings

Produced in food grade chrome plated brass, these 1/8" flow size couplings are more durable and withstand higher pressures. They are available with internal shut-off valves or straight through. All 20CB couplings interconnect with all other 20AC and 20PP couplings as well as other similar industry thumb-latch type couplings.



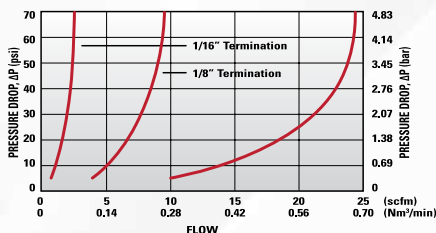
### Performance Ratings:

- Operating Pressure: Vacuum to 250psi; (17.3bar)
- Temperature: -40°F to 180°F; (-40°C to 82°C)
- Flow Capacity: 1/8" Size

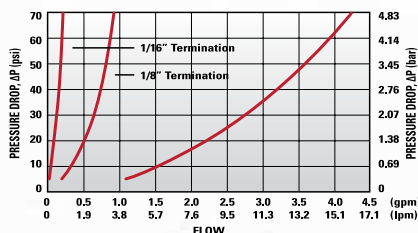
### Materials & Construction:

- Bodies & Terminations: Food Grade Chrome/Brass
- Internal Valves: Acetal (POM)
- Internal Valve Springs: 316 Stainless Steel
- O-rings: FDA & NSF Grade Buna-N (others available)
- Thumb-latch: Stainless Steel
- External Springs & Pins: Stainless Steel

20CB Series Air Flow



20CB Series Water Flow



### FLOW RATES

The data below shows liquid flow rates for LinkTech couplings. Each coupling combination was tested at 70°F (21°C).

### C<sub>v</sub> Values for 20CB Series Couplings

SOCKETS	20CBV-PB2-02	20CB-PB2-02	20CBV-PB2-03	20CB-PB2-03	20CBV-PB2-04	20CB-PB2-04	20CBV-PB9-04	20CB-PB9-04	20CBV-PB1-02	20CB-PB1-02	20CBV-PB1-04	20CB-PB1-04	20CBV-PB4-04	20CB-PB4-04
20CBV-SB2-04	0.16	0.22	0.16	0.22	0.21	0.26	0.17	0.23	0.19	0.25	0.21	0.25	0.24	0.27
20CB-S2-04	0.18	0.24	0.19	0.26	0.23	0.45	0.24	0.33	0.2	0.45	0.24	0.38	0.27	0.45
20CBV-SB3-02	0.14	0.17	0.14	0.18	0.15	0.19	0.15	0.19	0.18	0.18	0.15	0.18	0.15	0.19
20CB-S3-02	0.14	0.19	0.14	0.2	0.15	0.27	0.15	0.24	0.15	0.27	0.18	0.28	0.16	0.27
20CBV-SB3-04	0.16	0.22	0.16	0.22	0.21	0.26	0.17	0.23	0.19	0.26	0.21	0.26	0.16	0.25
20CB-S3-04	0.18	0.25	0.19	0.27	0.23	0.45	0.23	0.34	0.2	0.45	0.25	0.45	0.26	0.45
20CBV-SB8-04	0.16	0.2	0.16	0.21	0.17	0.22	0.17	0.21	0.17	0.21	0.17	0.21	0.18	0.22
20CB-S8-04	0.16	0.25	0.17	0.3	0.18	0.4	0.18	0.4	0.16	0.4	0.18	0.36	0.21	0.4
20CBV-SB1-02	0.16	0.24	0.17	0.25	0.2	0.28	0.18	0.27	0.2	0.26	0.2	0.29	0.24	0.26
20CB-S1-02	0.16	0.25	0.17	0.3	0.19	0.5	0.18	0.4	0.2	0.5	0.2	0.5	0.24	0.5
20CBV-SB1-04	0.17	0.25	0.18	0.25	0.23	0.3	0.19	0.3	0.21	0.27	0.23	0.28	0.24	0.29
20CB-S1-04	0.18	0.26	0.19	0.3	0.24	0.5	0.21	0.4	0.2	0.5	0.25	0.51	0.26	0.5

Specific coupling combination flow rates can be determined by using this formula:

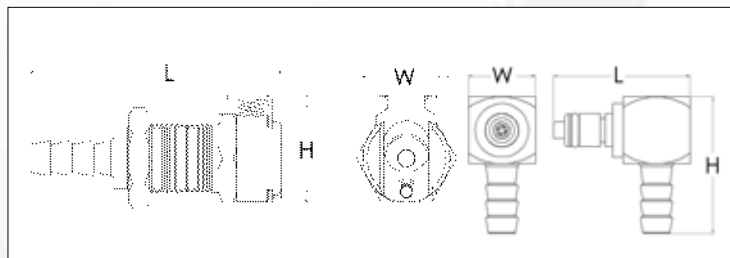
$$Q = C_v \frac{\sqrt{\Delta P}}{S}$$

Q = Flow rate in gallons per minute  
 C<sub>v</sub> = Average flow rates (see chart)  
 ΔP = Pressure drop across coupling (psi)  
 S = Specific gravity of liquid.

### Panel Mount Dimensions

	PANEL OPENING	MAX PANEL THICKNESS	MIN PANEL THICKNESS
SOCKETS	0.5"	0.5"	0.05"
PLUGS	0.5"	0.3"	0.05"

PANEL NUT HEX SIZE	PANEL NUT THREAD
5/8"	1/2" - 24 UNS



Reference Dimensions: L = Length, W = Width, H = Height

# 20CB Series Sockets

Tubing Size 1/8" - 1/4"  
1/8" Flow Chrome Brass



## MALE THREAD SOCKET

Non-Valved	Valved	Thread Size	Length	Width	Height
20CB-S1-02	20CBV-SB1-02	1/8" NPT	1.00"	.62"	.80"
20CB-S1-02BSPT	20CBV-SB1-02BSPT	1/8" BSPT	1.00"	.62"	.80"
20CB-S1-04	20CBV-SB1-04	1/4" NPT	1.00"	.62"	.80"
20CB-S1-04BSPT	20CBV-SB1-04BSPT	1/4" BSPT	1.00"	.62"	.80"



## IN-LINE HOSE BARB SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
20CB-S2-02	20CBV-SB2-02	1/8" ID	3.2mm ID	1.65"	.62"	.80"
20CB-S2-03	20CBV-SB2-03	3/16" ID	4.8mm ID	1.85"	.62"	.80"
20CB-S2-04	20CBV-SB2-04	1/4" ID	6.4mm ID	1.85"	.62"	.80"



## IN-LINE PTF SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
20CB-S9-025	20CBV-SB9-025	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	1.68"	.63"	.80"
20CB-S9-04	20CBV-SB9-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.78"	.63"	.80"



## PANEL MOUNT HOSE BARB SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
20CB-S3-02	20CBV-SB3-02	1/8" ID	3.2mm ID	1.68"	.62"	.80"
20CB-S3-03	20CBV-SB3-03	3/16" ID	4.8mm ID	1.89"	.62"	.80"
20CB-S3-04	20CBV-SB3-04	1/4" ID	6.4mm ID	1.89"	.62"	.80"



## PANEL MOUNT PTF SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
20CB-S8-025	20CBV-SB8-025	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	1.68"	.62"	.80"
20CB-S8-04	20CBV-SB8-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.78"	.62"	.80"



## PANEL MOUNT MALE THREAD SOCKET

Non-Valved	Valved	Thread Size	Length	Width	Height
20CB-S12-02	20CBV-SB12-02	1/8" NPT	.62"	.80"	.80"



## PANEL MOUNT FEMALE THREAD SOCKET

Non-Valved	Valved	Thread Size	Length	Width	Height
20CB-S19-1032	20CBV-SB19-1032	10/32 UNF	.62"	.80"	.80"

# 20CB Series Plugs

Tubing Size 1/8" - 1/4"  
1/8" Flow Chrome Brass




## MALE THREAD PLUG

Non-Valved	Valved	Thread Size	L(nv/v)	Width	Height
20CB-PB1-02	20CBV-PB1-02	1/8" NPT	1.05"/1.45"	.50"	.50"
20CB-PB1-02BSPT	20CBV-PB1-02BSPT	1/8" BSPT	1.05"/1.45"	.50"	.50"
20CB-PB1-04	20CBV-PB1-04	1/4" NPT	1.05"/1.45"	.75"	.75"
20CB-PB1-04BSPT	20CBV-PB1-04BSPT	1/4" BSPT	1.05"/1.45"	.75"	.75"




## FEMALE THREAD PLUG


Non-Valved	Valved	Thread Size	L(nv/v)	Width	Height
20CB-PB13-1032	20CBV-PB13-1032	10/32 UNF	.63"/1.35"	.56"	.56"
20CB-PB13-02	N/A	1/8" NPT	.95"/n/a	.56"	.56"
20CB-PB13-02BSPT	N/A	1/8" BSPT	.95"/n/a	.56"	.56"
20CB-PB13-04	N/A	1/4" NPT	1.15"/n/a	.63"	.63"




IN-LINE HOSE BARB PLUG							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB2-02	20CBV-PB2-02	1/8" ID	3.2mm ID	.98"/1.65"	.63"	.63"	
20CB-PB2-03	20CBV-PB2-03	3/16" ID	4.8mm ID	1.13"/1.80"	.63"	.63"	
20CB-PB2-04	20CBV-PB2-04	1/4" ID	6.4mm ID	1.13"/1.85"	.63"	.63"	




IN-LINE PTF PLUG							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB9-025	20CBV-PB9-025	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	1.15"/1.55"	.63"	.63"	
20CB-PB9-04	20CBV-PB9-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.15"/1.55"	.63"	.63"	
20CB-PB9-06	20CBV-PB9-06	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	1.28"/1.70"	.55"	.55"	




PANEL MOUNT HOSE BARB PLUG							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB3-02	20CBV-PB3-02	1/8" ID	3.2mm ID	1.65"/1.75"	.62"	.62"	
20CB-PB3-03	20CBV-PB3-03	3/16" ID	4.8mm ID	1.82"/1.92"	.62"	.62"	
20CB-PB3-04	20CBV-PB3-04	1/4" ID	6.4mm ID	1.82"/1.92"	.62"	.62"	




PANEL MOUNT PTF PLUG							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB8-025	20CBV-PB8-025	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	1.67"/1.77"	.62"	.62"	
20CB-PB8-04	20CBV-PB8-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.69"/1.79"	.62"	.62"	



ELBOW HOSE BARB PLUG							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB4-02	20CBV-PB4-02	1/8" ID	3.2mm ID	1.20"/1.30"	.63"	.63"	
20CB-PB4-04	20CBV-PB4-04	1/4" ID	6.4mm ID	1.20"/1.30"	.63"	.63"	




ELBOW PTF PLUG							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB10-04	20CBV-PB10-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.20"/1.30"	.63"	1.15"	



*\*Patent Pending*

PANEL MOUNT HOSE BARB PLUG, NON ROTATIONAL							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB20-02	20CBV-PB20-02	1/8" ID	3.2mm ID	1.65"/1.75"	.62"	.62"	
20CB-PB20-03	20CBV-PB20-03	3/16" ID	4.8mm ID	1.82"/1.92"	.62"	.62"	
20CB-PB20-04	20CBV-PB20-04	1/4" ID	6.4mm ID	1.82"/1.92"	.62"	.62"	



*\*Patent Pending*

PANEL MOUNT PTF PLUG, NON ROTATIONAL							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
20CB-PB21-04	20CBV-PB21-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.69"/1.79"	.62"	.62"	