

## Pneumatic Quick Couplings

## General Purpose – Manual Connect 20 Series Industrial Interchange



### Features

- Parker 20 Series sleeve type couplers accept industrial interchange nipples manufactured by Parker and other manufacturers.
- Standard seals are Nitrile. See the Coupling Selection and Ordering Information Guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.

### Specifications

Body Size (in.Z)	1/4	3/8	1/2
Rated Pressure (psi)	300	300	300
Temperature Range (Std. seals)*	-40° to +250° F.		
Locking Device	4 balls	8 balls	8 balls
Vacuum Data (inches Hg)	<b>Not recommended</b>		
Disconnected (coupler only)	<b>Not recommended</b>		
Connected	27.4	27.4	27.4

\* See Coupling Selection and Ordering Guide for Optional Seals  
See **Coupling Repair Kits** Table on introduction page to General Purpose - Manual Connect Couplers

### How to Order Information

The standard 1/4" 20 Series is a brass coupler with a steel valve. The larger sizes are an all steel construction with brass available as an option. To order a 3/8" or 1/2" body size coupler with a brass body and a steel sleeve and valve, add the prefix "B" to the steel part number. Example: B16.

Add the suffix "N" as well as the "B" prefix to order an all brass coupler with stainless steel locking balls and springs, Example: B25N. All-brass couplings should be used to avoid corrosion from moisture. Consult factory for specific recommendations.

Available with Sleeve-Lok (See Coupler Options at the beginning of Section A). To order, add "-SL" as a suffix to the part number, Example: 25-SL.

Available for 1/4" 20 Series couplers is a Grip-Ring sleeve (See Coupler Options). To order, add the suffix "R" to the part number, Example: B23R.

### Applications

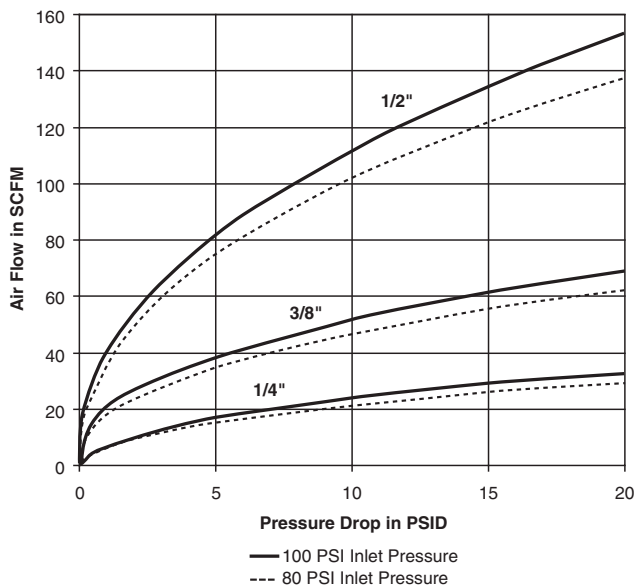
Sleeve type couplings are widely used to connect air lines and can also be used with low pressure fluids.

Their compact and economical design uses a ball locking mechanism consisting of captive steel balls that engage the locking groove on the mating nipple. The sliding spring loaded sleeve on the coupler must be manually retracted in order to connect or disconnect the nipple. It is easy to do, but two hands are normally required.

Common applications include: compressed air, water, grease, paint, limited vacuum and limited gases.

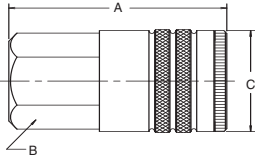
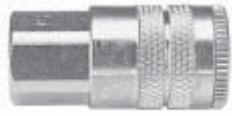
### Performance

20 Series (1/4", 3/8", 1/2" sizes)



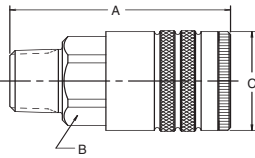
**Couplers**

**Female Pipe Thread**



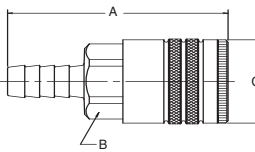
Body Size (in.Z)	Part No. Brass	Part No. Steel	Part No. Type 303 Stainless	Thread Size NPTF	Dimension (in.Z)			Wt. (LBZ P/Piece)
					Overall Length	Hex Size	Largest Diameter	
					A	B	C	
1/4	B23A	–	–	1/8-27	1.83	0.75	0.90	0.20
1/4	B23	–	S23	1/4-18	1.83	0.75	0.90	0.19
1/4	B23E	–	–	3/8-18	1.95	0.81	0.94	0.20
3/8	–	25C	–	1/4-18	2.22	0.88	1.06	0.30
3/8	B25	25	–	3/8-18	2.28	0.88	1.06	0.32
3/8	–	25F	–	1/2-14	2.55	1.00	1.16	0.34
1/2	–	17E	–	3/8-18	2.74	1.00	1.19	0.46
1/2	B17	17	–	1/2-14	2.96	1.00	1.19	0.50
1/2	–	17G	–	3/4-14	3.19	1.25	1.44	0.56

**Male Pipe Thread**



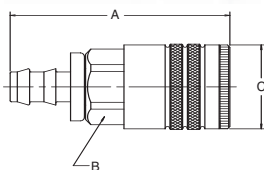
Body Size (in.Z)	Part No. Brass	Part No. Steel	Part No. Type 303 Stainless	Thread Size NPTF	Dimension (in.Z)			Wt. (LBZ P/Piece)
					Overall Length	Hex Size	Largest Diameter	
					A	B	C	
1/4	B22A	–	–	1/8-27	1.89	0.75	0.90	0.18
1/4	B22	–	S22	1/4-18	2.05	0.75	0.90	0.18
1/4	B22E	–	–	3/8-18	2.08	0.75	0.90	0.19
3/8	–	24C	–	1/4-18	2.36	0.88	1.06	0.26
3/8	B24	24	–	3/8-18	2.39	0.88	1.06	0.29
3/8	–	24F	–	1/2-14	2.55	0.88	1.06	0.29
1/2	–	16E	–	3/8-18	2.93	1.00	1.19	0.42
1/2	B16	16	–	1/2-14	3.08	1.00	1.19	0.47
1/2	–	16G	–	3/4-14	3.21	1.13	1.30	0.50

**Standard Hose Barb**



Body Size (in.Z)	Part No. Brass	Part No. Steel	Hose I.D.	Dimensions (in.Z)			Wt. (LBZ P/Piece)
				Overall Length	Hex Size	Largest Diameter	
				A	B	C	
1/4	B20-3B	–	1/4	2.49	0.75	0.90	0.18
1/4	B20-4B	–	5/16	2.49	0.75	0.90	0.18
1/4	B20-5B	–	3/8	2.49	0.75	0.90	0.18
3/8	–	24-5B	3/8	2.86	0.88	1.06	0.27
3/8	–	24-6B	1/2	3.08	0.88	1.06	0.28
1/2	–	16-5B	3/8	3.37	1.00	1.19	0.41
1/2	–	16-6B	1/2	3.62	1.00	1.19	0.43
1/2	–	16-7B	3/4	3.96	1.00	1.19	0.48

**Push-Lok Hose Barb\***



Body Size (in.Z)	Part No. Brass	Part No. Steel	Hose I.D.	Dimensions (in.Z)			Wt. (LBZ P/Piece)
				Overall Length	Hex Size	Largest Diameter	
				A	B	C	
1/4	B20-3BP	–	1/4	2.32	0.75	0.90	0.18
1/4	B20-5BP	–	3/8	2.47	0.75	0.90	0.19
3/8	–	24-5BP	3/8	2.88	0.88	1.06	0.27
1/2	–	16-5BP	3/8	3.35	1.00	1.19	0.40
1/2	–	16-6BP	1/2	3.46	1.00	1.19	0.43

\* Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

**Note:** See Table of Contents for those nipples used with 20 Series couplers.

