

Snap-tite 56-Series

High Pressure Water Blast Coupling



Featuring... Snap-tite quality with superior pressure and flow characteristics over the competition.

Parker Snap-tite's 56 Series is designed for rugged, high pressure water blasting equipment used in cleaning and paint stripping applications. Working pressure for 56-Series is 828 bar with a design factor of 4:1. Series 56 is interchangeable with competitive units. The 56 Series utilizes a proven dog-lock mechanism that increases surface contact and provides even load distribution under pressure thereby increasing the service life of the coupling.

In addition to cleaning and paint removal, water blast equipment is also used in the cleaning of maritime vessels as well as the removal of mill scale in industrial applications.



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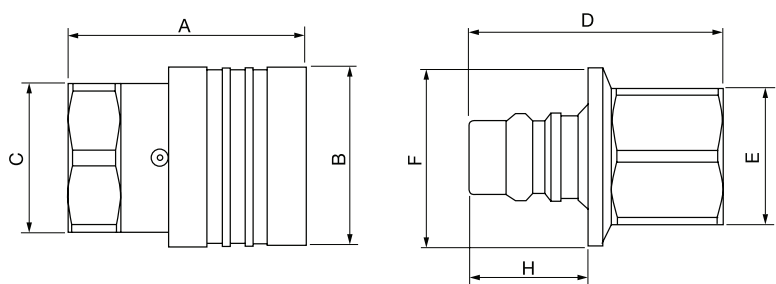


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Technical and Dimensional Information

56-Series Features:

- Engineered for operating pressures to 828 bar with 4:1 design factor
- High strength steel construction with corrosion resistant Zinc Trivalent Chromate plating
- Proven dog-lock mechanism provides safe, positive connection and eliminates ball brinnelling
- Interchangeable with Aeroquip FD69 Series
- Nipple mounted sleeve guard and coupler sleeve lock aid in preventing accidental disconnection
- Straight through bore provides minimal pressure drop
- Available in 1/2" body size with 3/8" or 1/2" end fittings

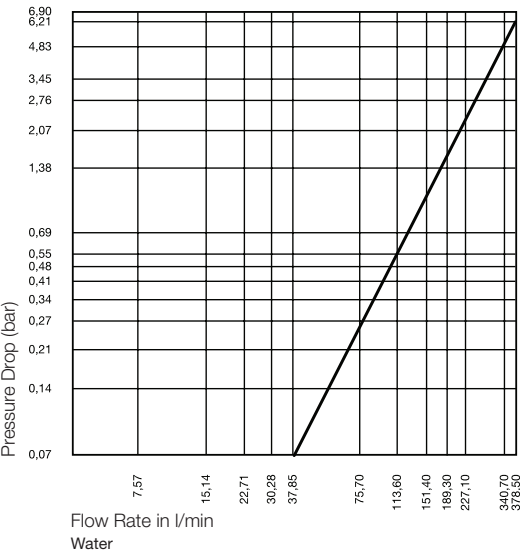


Size	A in mm	B in mm	C (HEX) in mm	D in mm	E (HEX) in mm	F in mm	H (ENG)
1/2"	56,1	41,4	35,1	59,7	31,8	41,4	27,9

Pressure Ratings

Size	Maximum Working Pressure		Minimum Burst Pressure	
	PSI	bar	PSI	bar
1/2"	12.000	828	48.000	3.310

Flow Charts



Ordering Information

56

Series:
56

C

Coupling Half:
C = Coupling
N = Nipple

8

Coupling Body Size:
8 = 1/2"

-

8

End Fitting Size:
6 = 3/8"
8 = 1/2"

F

End Fitting Type:
F = Female NPTF
RP = Female British Parallel BS2779

Seals:
= Buna N
V = FKM
E = EPDM



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Snap-tite E / EA-Series

General Purpose and Vacuum Couplings



Featuring... Snap-tite quality with superior pressure and flow characteristics over the competition.

Snap-tite's EA Series quick disconnect coupling is designed specifically for vacuum and medium pressure service, providing a dependable means for speeding fluid line changeover in autoclave applications ranging from aircraft fabrication to plastic molding.

Snap-tite's E Series quick disconnect couplings have been proven by years of use on hydraulic and pneumatic applications as well as many other liquids and gases. They are designed and manufactured for years of reliable service.



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Technical and Dimensional Information

E/EA-Series Features:

- **Sizes EA-Series:** 1/4" - 3/4"
- **Sizes E-Series:** 1" - 4"
- **Metals:** EA and E Series are available in four metals – Zinc Trivalent Chromate Plated steel, brass, aluminum and 316 stainless steel.
- **Seals:** Wide range of standard and special seal materials available.
- **High Temperature Capability in EA Series:** A unique configuration for containing the nipple o-ring seal to affect both a diametrical and compression seal allows the EA Series to handle high temperature and vacuum internally even with an external pressure on the coupling - or the reverse - while maintaining reliability.
- **Flow:** Snap-tite's "Jet Stream" valve design helps maintain a clean linear flow. Positive positioning of the valve aids in maintaining a steady, even flow under normal working conditions
- **Vacuum Capability:** Dependable service down to 29.72"Hg
- **Dependable Operation:** Ball-lock mechanism provides positive connection while two piece construction allows for end fitting versatility.
- **Sleeve Lock:** Sleeve lock option aids in preventing accidental disconnection of the coupling

Working Pressures

Size	Steel				Stainless Steel				Brass				Aluminium			
	Maximum Working		Minimum Burst		Maximum Working		Minimum Burst		Maximum Working		Minimum Burst		Maximum Working		Minimum Burst	
	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
1/4"	3000	207	6000	414	3000	207	6000	414	1500	103	3000	207	1500	103	3000	207
3/8"	3000	207	6000	414	3000	207	6000	414	1500	103	3000	207	1500	103	3000	207
1/2"	3000	207	6000	414	3000	207	6000	414	1500	103	3000	207	1500	103	3000	207
3/4"	2000	138	4000	276	2000	138	4000	276	1500	103	3000	207	1500	103	3000	207
1"	1500	103	3000	207	1000	69	2000	138	500	34	1000	69	500	34	1000	69
1 1/4"	1000	69	2000	138	750	52	1500	103	300	21	600	41	300	21	600	41
1 1/2"	1000	69	2000	138	750	52	1500	103	300	21	600	41	300	21	600	41
2"	750	52	1500	103	500	34	1000	69	300	21	600	41	300	21	600	41
2 1/2"	500	34	1000	69	400	28	800	55	300	21	600	41	300	21	600	41
3"	500	34	1000	69	300	21	600	41	200	14	400	28	200	14	400	28
4"	500	34	1000	69	200	14	400	28	150	10	300	21	150	10	300	21

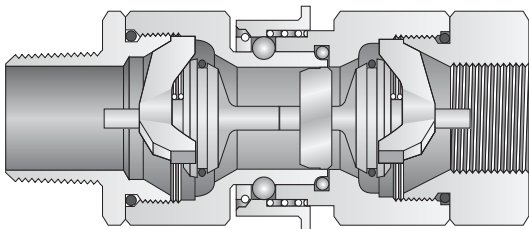
NOTE: Pressure ratings were established under static pressure conditions. Therefore, pressure ratings for any given flow, pressure surge and/or vibration may vary from these ratings.

Vacuum Capability at Standard Barometric Conditions

	EA-Series								E-Series							
	1/4"		3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
	IN.HG	AMT	IN.HG	AMT	IN.HG	AMT	IN.HG	AMT	IN.HG	AMT	IN.HG	AMT	IN.HG	AMT	IN.HG	AMT
Connected	29,7	0,99	29,7	0,99	29,7	0,99	29,7	0,99	29,7	0,99	28,0	0,94	27,0	0,90	26,0	0,87
Disconnected	29,7	0,99	29,7	0,99	29,7	0,99	29,7	0,99	20,5	0,69	12,0	0,40	4,2	0,14	4,5	0,15

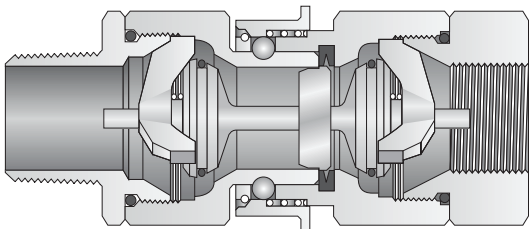
EA-Series

1/4" up to 3/4"

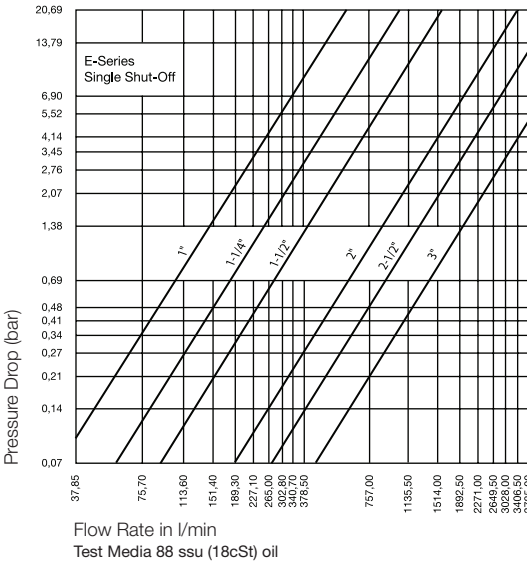
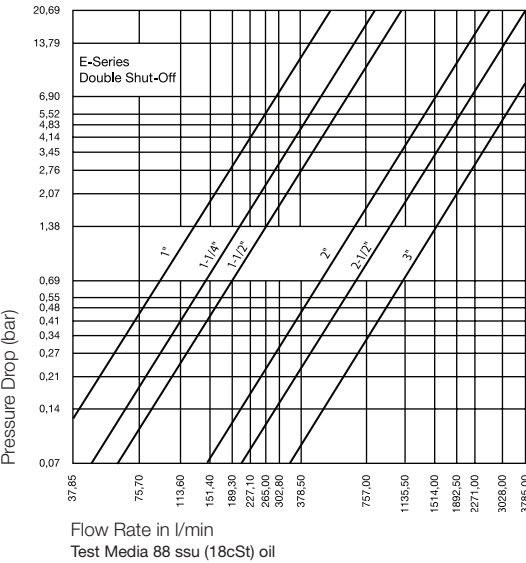
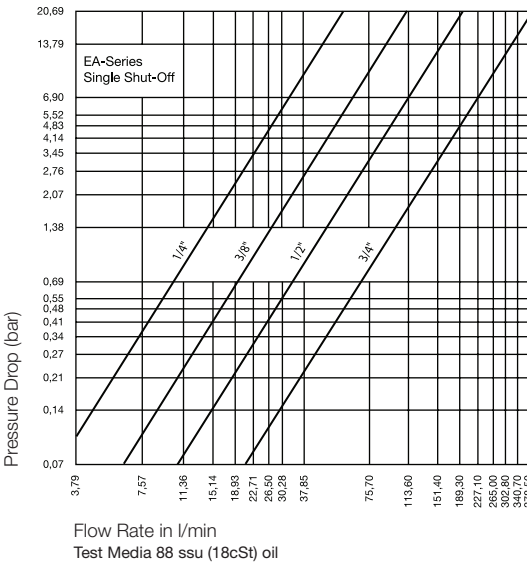
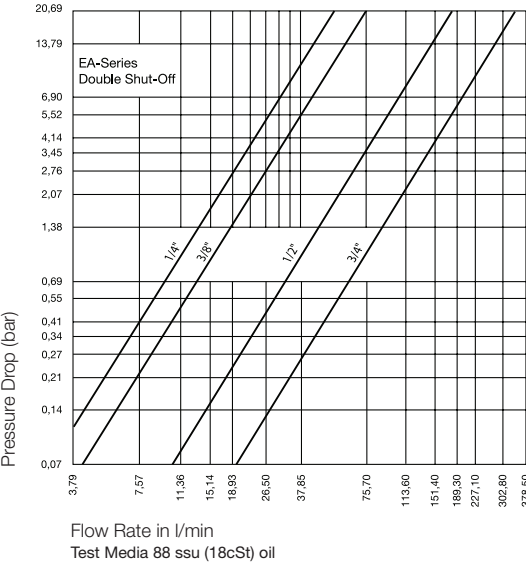


E-Series

1" up to 4"

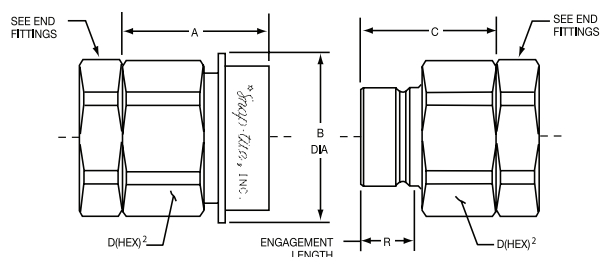


Flow Charts










Coupling Combinations & End Fittings:

1. Double shut-off coupling: Valve coupler and valve nipple.
 2. Single shut-off coupling: Valve coupler and plain nipple.
 3. No shut-off or straight through: Plain coupler and plain nipple. Plain couplers cannot be used with valve nipples.
- All combinations of the same coupling size are interchangeable regardless of material, finish or end fittings.

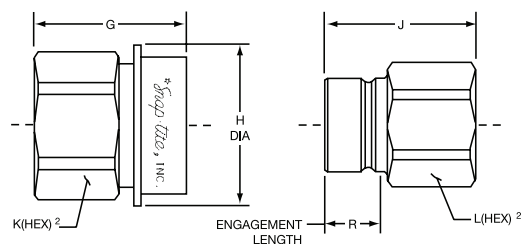


Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A in mm	34,04	38,10	41,15	48,51	52,58	57,91	65,28	79,76	92,20	98,55	116,30
B in mm	28,70	33,27	36,58	47,80	55,63	63,50	73,15	92,20	114,30	138,40	171,50
C in mm	33,02	37,08	38,35	45,47	48,01	51,31	57,15	69,09	81,28	90,90	107,70
D in mm	22,40	25,40	30,23	38,10	47,75	50,80	69,85	95,25	114,30	133,40	171,45
R in mm	14,00	17,53	17,53	21,30	21,84	20,30	23,88	28,44	31,24	35,00	44,00

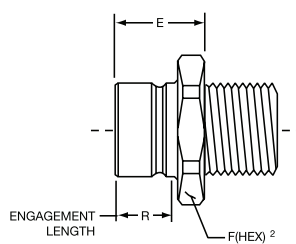
End Fittings:

	Size		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
 Male Tapered Pipe	F	mm	19,05	17,53	24,13	24,38	28,96	33,27	36,58	35,56	46,48	47,75	73,15
	G²	mm	22,35	25,40	30,23	38,10	47,75	50,80	63,50	88,90³	101,60	120,65	152,40
 EM Male SAE Flared and MS33656	F	mm	18,80	18,80	21,34	28,70	29,46	32,26	37,08	43,43			
	G²	mm	22,35	33,27	30,23	38,10	47,75	50,80	63,50	88,90³			
 MS33657	F	mm	31,31	33,27	37,34	46,74	46,74	49,53					
	G²	mm	22,35	25,40	30,23	38,10	47,75	50,80					
 Female Tapered Pipe	F	mm	7,87	10,16	11,94	12,70	15,24	32,00	17,78	19,81	22,86	22,35	28,70
	G²	mm	22,35	25,40	30,23	38,10	47,75	50,80	63,50	88,90	101,60	120,65	152,40
 EF Female Straight and MS33649	F	mm	11,68	17,78	14,48	25,40	22,10	28,19	21,59	25,65			
	G²	mm	22,35	25,40	30,23	38,10	47,75	50,80	63,50	88,90			
 EB Male SAE Bulk-Head	F	mm	35,30	39,62	42,42	51,56	46,74	54,36					
	G²	mm	22,35	25,40	30,23	38,10	47,75	50,80					
 Female RP⁴ British Parallel	F	mm	9,91	10,16	13,46	14,22	15,24	32,00	17,78	19,81	22,86	22,35	28,70
	G²	mm	22,35	25,40	30,23	38,10	47,75	50,80	63,50	88,90	101,60	120,65	152,40

Plain Female Pipe & Plain Female RP



Plain Male Pipe



Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
E in mm	22,10	23,10	22,40	26,70	25,91	24,90	30,20	35,56	46,99	60,20	58,20
F in mm	14,20	17,53	22,40	26,90	35,05	47,80	54,10	63,50	82,55	101,60	127,00
G in mm	34,04	38,86	43,69	48,50	52,60	57,90	65,30	67,82	81,50	85,10	98,60
H in mm	28,70	33,27	36,58	47,70	55,63	63,50	73,15	92,20	114,30	138,40	171,50
J in mm	33,78	40,13	43,18	52,07	51,82	53,85	56,64	59,69	73,20	81,03	88,90
K in mm	22,40	25,40	30,23	38,10	47,80	50,80	63,50	82,60	95,30	120,70	139,70
L in mm	16,00	20,60	25,40	30,20	38,10	47,80	54,10	69,85	82,60	101,60	127,00
R in mm	14,00	17,53	17,53	21,30	21,84	20,30	23,88	28,44	31,24	35,00	44,00

¹ Other special end fittings available upon request.

² Dimensions taken across the hex flats. Round stock with two milled flats may be substituted for hex stock. Dimensions across flats same as dimensions across hex flats. Max O.D. of round stock will not exceed the dimensions across the points of the hex stock. Valve coupler and nipple bodies may be supplied from round bar stock without wrench flats.




³ 3.5" (88.9 mm) across hex flats - may substitute 3.75" (95.25 mm) round with 3.38" (85.85 mm) across wrench flats.

⁴ Notch on Hex indicates RP British parallel threads.

Series	Size	Force to Connect Valved & Valved		Spillage on Disconnect Valved & Valved	
		Internal Pressure bar	Force to Connect kg	With 10 psi Internal Pressure (ml)	With 50 psi Internal Pressure (ml)
EA	1/4"	15	22,7	1,2	1,5
EA	3/8"	15	27,2	1,4	2,5
EA	1/2"	15	43,1	4,2	4,6
EA	3/4"	10	43,1	10,5	11,6
E	1"	10	65,8	19,6	21,4
E	1 1/4"	10	86,2	30,8	38,6
E	1 1/2"	5	68,0	55,2	59,3
E	2"	5	111,2	85,3	96,5
E	2 1/2"	5	192,8	172,0	251,0
E	3"	5	254,0	262,0	286,0
E	4"	0	20,4		

Accessories

Dust caps, dust plugs and pressure caps protect disconnected couplers and nipples from damage, dirt and other contaminants. Dust caps and dust plugs are available in plastic and clear anodized aluminum.


Plastic Cap and Plug	Aluminum Dust Caps and Plugs	Pressure Caps
Inexpensive means to protect your investment against contamination and damage. Comes with a loop to fit over pipe fitting or affixing to equipment with sheet metal screw. Available in sizes 1/4" thru 1".	Alternate method to protect your equipment – aluminum dust caps and plugs are available in sizes 1/4" thru 3". The 1/4" thru 3/4" sizes come with 10" chrome plated brass bead chain. The 1" and above come with steel zinc plated sash chain.	Pressure-tight pressure caps for nipples are standard in steel, zinc yellow dichromate plated. Other materials such as brass, aluminum and stainless steel available on special order. Sizes available 1/4" thru 3". Sizes 1/4" thru 3/4" come with 10" length of corrosion resistant steel cable. Sizes 1" thru 3" come with 12" of cable-all with adjustable loop at end of cable. Consult factory for special lengths and part number.
 <p>Plastic Dust Cap (PDC)</p> <p>Plastic Dust Plug (PDP)</p>	 <p>Metal Dust Plug (AMPE)</p> <p>Metal Dust Cap (ADCE)</p>	 <p>Metal Pressure Cap (MCE)</p>

Size	Plastic Cap	Plastic Plug	Aluminium Cap	Aluminium Plug	Pressure Cap
1/4"	PDC-4	PDP-4	ADCE-4	AMPE-4	MCE-4
3/8"	PDC-6	PDP-6	ADCE-6	AMPE-6	MCE-6
1/2"	PDC-8	PDP-8	ADCE-8	AMPE-8	MCE-8
3/4"	PDC-12	PDP-12	ADCE-12	AMPE-12	MCE-12
1"	PDC-16	PDP-16	ADCE-16	AMPE-16	MCE-16
1 1/4"			ADCE-20	AMPE-20	MCE-20
1 1/2"			ADCE-24	AMPE-24	MCE-24
2"			ADCE-32	AMPE-32	MCE-32
2 1/2"			ADCE-40	AMPE-40	MCE-40
3"			ADCE-48	AMPE-48	MCE-48

Spare Parts

Valve Kits	Valve Seals	Nipple Seals
Includes valve, valve spring and stop. Valve seal is included in sizes 3/8" thru 1" in brass, steel and aluminum only. Part Number – Use the base part number followed by SPK. Example: VEAC4-SPK BVEC16-SPK	(1/4" valve seal is staked in the coupler and nipple bodies in all materials and is not considered field repairable. 3/8" and above are available for repair). Part Number – (EA or E) (size)-55" Example: EA8-55 E16-55V	Includes O-ring for EA-Series, butt seal for E-Series. Part Number – (EA or E) (size)-58" Example: EA6-58 E16-58

Ordering Information

S	V	EA	C	4	-	4	F		
				Coupling Body Size: 4 = 1/4" 24 = 1 1/2" 6 = 3/8" 32 = 2" 8 = 1/2" 40 = 2 1/2" 12 = 3/4" 48 = 3" 16 = 1" 64 = 4" 20 = 1 1/4"					
				Coupling Half: C = Coupling N = Nipple		End Fitting Size: 2 = 1/8" 20 = 1 1/4" 4 = 1/4" 24 = 1 1/2" 6 = 3/8" 32 = 2" 8 = 1/2" 40 = 2 1/2" 10 = 5/8" 48 = 3" 12 = 3/4" 64 = 4" 16 = 1"			
				Series: EA = 1/4" up to 3/4" E = 1" up to 4"		End Fitting Type: M = Male NPT F = Female NPTF ¹ EF = Female SAE EM = Male SAE 37° Flare EB = Bulkhead SAE RP = Female British Parallel BS2779 49 = MS33649 Female 56 = MS33656 37° Male Flare 57 = MS33657 Bulkhead 14 = MS33514 Male 15 = MS33515 Bulkhead			
				Type: V = Valved P = Plain (without valve)		Seals: Blank = Nitrile (Code A) (-35°C up to +120°C) JF = Military variation of Nitrile for hydrocarbon fuels (-56°C up to +82°C) M = Military variation of Nitrile for MIL-H-5606 fluids (-53°C up to +107°C) V = Fluorocarbon (-26°C up to +204°C) E = Ethylene Propylene (-56°C up to +120°C)			
Material: Blank = Steel plated A = Aluminium, clear anodized B = Brass S = 316 Stainless Steel				 Sleeve Lock Option: SL = Aids in preventing accidental disconnection. To disconnect, align the pin in the body with the slot in the sleeve.					

¹ For size up to 1" NPTF threads in steel.
For size up to 1" NPSF threads in stainless steel
For size over 1" NPT threads



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