

# Hydraulic Quick Couplings

## High Pressure

# 71 Series

## High Pressure, Non-Spill

Push-to-Connect



Parker's 71 Series, formerly Snap-tite couplings are designed for working pressures up to 10,000 psi. Available in a variety of materials and with a wide range of body sizes. Air inclusion and fluid loss are minimal with the flush face valves. Large flow chambers in the body and an exclusive valve design permit superior flow while maintaining low pressure drop.

### Features:

- Flush face/Non-spill
- Push-to-connect
- Heavy duty construction
- Designed for up to 10,000 psi (690 bar) working pressures
- Variety of materials
- Wide range of sizes
- Superior flow and low pressure drop
- Sleeve lock option to protect against accidental disconnection.

### Applications include:

- Industrial hydraulic lines
- Off-shore drilling

## 71 Series Pressure Ratings

Body Size	Steel		316 Stainless Steel		High Pressure Stainless Steel	
	Maximum Working (psi)	Minimum Burst* (psi)	Maximum Working (psi)	Minimum Burst* (psi)	Maximum Working (psi)	Minimum Burst* (psi)
1/4	10,000	20,000	5,000	12,500	10,000	20,000
3/8 x 1/4 <sup>1</sup>	10,000	20,000	5,000	12,500	10,000	20,000
3/8	10,000	20,000	5,000	12,500	10,000	20,000
3/8 x 1/2 <sup>2</sup>	10,000	20,000	5,000	12,500	10,000	20,000
1/2	10,000	20,000	5,000	12,500	10,000	20,000
3/4	7,500	15,000	5,000	12,500	7,500	15,000
1	7,500	15,000	4,000	10,000	7,500	15,000
1 x 1-1/4 <sup>3</sup>	7,500	15,000	4,000	10,000	7,500	15,000
2 x 1-1/2 <sup>4</sup>	5,000	10,000	3,000	6,000	5,000	10,000
2	5,000	10,000	3,000	6,000	5,000	10,000

<sup>1</sup> Unit is 3/8" with 1/4" end fitting. <sup>2</sup> Unit is 3/8" with 1/2" end fitting. <sup>3</sup> 1" unit with 1-1/4" end fitting, and <sup>4</sup> 2" unit with 1-1/2" end fitting.

\*NOTE: Pressure Ratings were established under static pressure conditions. For high impulse applications, consult QCD.

## Specifications

Body Size	1/4	3/8 x 1/4 <sup>1</sup>	3/8	3/8 x 1/2 <sup>2</sup>	1/2	3/4	1	1 x 1-1/4 <sup>3</sup>	2 x 1-1/4 <sup>4</sup>	2
Spillage (cc)	.02	.02	.02	.02	.03	.06	.10	.10	5.25	5.25
Air Inclusion (cc)	.01	.02	.02	.02	.03	.04	.06	.06	30.50	30.50

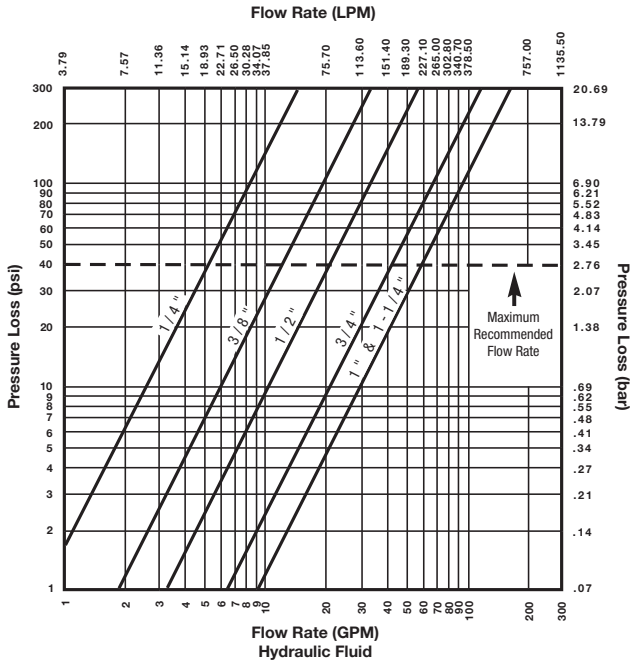
## Maximum Recommended Connect/Disconnect Pressures

Body Size	1/4	3/8, 1/2, 3/4	1, 1-1/4	1-1/2, 2
Pressure	300	150	75	0

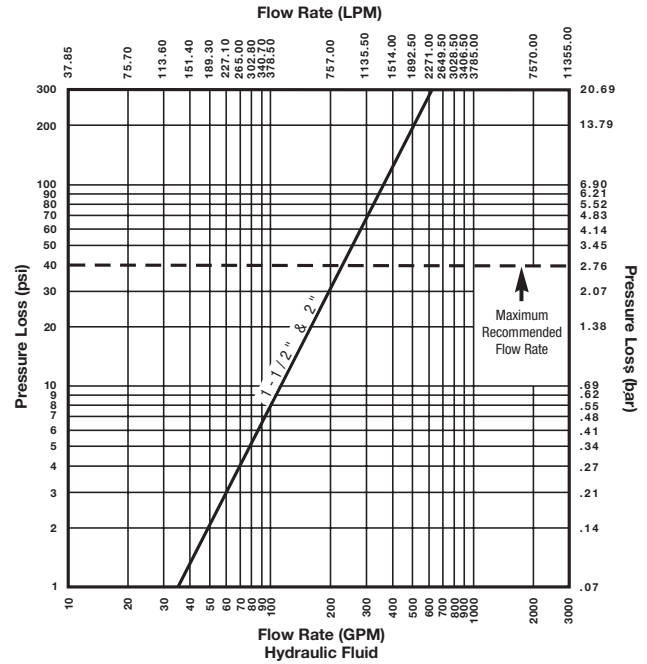


## Performance

### Sizes 1/4 thru 1-1/4



### Sizes 1-1/2 and 2



Gallons per minute (gpm) in US gallons. Test Media MIL-H-6083 Hydraulic Fluid at 90°F ± 5°F (+32°C ± 1.5°C) sg .83

## Ordering Guide

**71-3 C 4 - 4 F**

- Options:** SL = Sleeve Lock
- Seals:** Standard Seal = Nitrile, V = Fluorocarbon, E = Ethylene Propylene, M = MHO
- End Fitting Type:** F\* = Female NPTF, EF = Female SAE, RP = Female British Parallel BS2779, Autoclave cone & threaded fittings available (consult QCD)
- End Fitting Size:** 4 = 1/4", 6 = 3/8", 8 = 1/2", 12 = 3/4", 16 = 1", 20 = 1-1/4", 24 = 1-1/2", 32 = 2"
- Coupling Body Size:** 4 = 1/4", 6 = 3/8", 8 = 1/2", 12 = 3/4", 16 = 1", 32 = 2"
- Coupling Half:** C = Coupler, N = Nipple
- Series:** 71 = 1-1/2" & 2" Nipples Only, 71-1 = 1-1/2" & 2" Couplers Only, 71-3 = 1/4" thru 1-1/4" Both
- Material:** Blank = Steel, zinc trivalent plating, S = 316 Stainless Steel, SH = High Pressure Stainless Steel

\* For sizes up to 1" NPTF threads in steel.  
For sizes up to 1" NPSF threads in stainless steel.  
For sizes over 1" NPT threads.



**71 Series Couplers**



Body Size	Part Number Steel	Port End	Part Number 316 Stainless Steel	Part Number High Pressure Stainless Steel	Port End	Length (in)	Largest Dia.	Wrench Flats
1/4	71-3C4-4F	1/4 - 18 NPTF	S71-3C4-4F	SH71-3C4-4F	1/4 - 18 NPTF	1.96	1.19	0.94
1/4	71-3C4-4EF	7/16 - 20 UNF	S71-3C4-4EF	-	7/16 - 20 UNF	1.96	1.19	0.94
3/8	71-3C6-4F	1/4 - 18 NPTF	-	-	-	2.36	1.56	1.19
3/8	71-3C6-6F	3/8 - 18 NPTF	S71-3C6-6F	SH71-3C6-6F	3/8 - 18 NPSF	2.36	1.56	1.19
3/8	71-3C6-6EF	9/16 - 18 UNF	S71-3C6-6EF	SH71-3C6-6EF	9/16 - 18 UNF	2.36	1.56	1.19
3/8	71-3C6-8F	1/2 - 14 NPTF	S71-3C6-8F	-	1/2 - 14 NPSF	2.57	1.56	1.19
1/2	71-3C8-8F	1/2 - 14 NPTF	S71-3C8-8F	SH71-3C8-8F	1/2 - 14 NPSF	2.77	1.88	1.50
1/2	71-3C8-8EF	3/4 - 16 UNF	S71-3C8-8EF	-	3/4 - 16 UNF	2.77	1.88	1.50
3/4	71-3C12-12F	3/4 - 14 NPTF	S71-3C12-12F	SH71-3C12-12F	3/4 - 14 NPSF	3.05	2.25	1.75
3/4	71-3C12-12EF	1-1/16 - 12 UNF	S71-3C12-12EF	-	1-1/16 - 12 UNF	3.05	2.25	1.75
1	71-3C16-16F	1 - 11-1/2 NPTF	S71-3C16-16F	SH71-3C16-16F	1 - 11-1/2 NPSF	3.32	2.63	2.00
1	71-3C16-16EF	1-5/16 - 12 UNF	S71-3C16-16EF	-	1-5/16 - 12 UNF	3.32	2.63	2.00
1	71-3C16-20F	1-1/4 - 11-1/2 NPT	S71-3C16-20F	-	1-1/4 - 11-1/2 NPT	3.32	2.63	2.00
1	71-3C16-20EF	1-5/8 - 12 UNF	S71-3C16-20EF	-	1-5/8 - 12 UNF	3.32	2.63	2.00
2	71-1C32-24F	1-1/2 - 11-1/2 NPT	-	-	-	6.21	4.50	3.38
2	71-1C32-24EF	1-7/8 - 12 UNF	-	-	-	6.21	4.50	3.38
2	71-1C32-32F	2 - 11-1/2 NPT	-	-	-	6.21	4.50	3.38
2	71-1C32-32EF	2-1/2 - 12 UNF	-	-	-	6.21	4.50	3.38

**NOTE:**

1. The 71-3 style couplers and nipples are interchangeable with the previous design couplers and nipples in sizes 3/8", 1/2" and 3/4".
2. Old style 1" couplers and nipples (71-2C16 and 71-2N16) are not interchangeable with the 71-3 design. Contact QCD for information.
3. Internal components of S71 and SH71 couplers and nipples are not all 316 stainless steel. Contact QCD for details.
4. Prop 65 Warning does not apply to stainless steel part numbers.

**71 Series Dust Caps**



Body Size	Dust Cap (Coupler)	Dust Cap (Nipple)
1/4	71-3PCC-4	71-3PNC-4
3/8	71-3PCC-6	71-3PNC-6
1/2	71-3PCC-8	71-3PNC-8
3/4	71-3PCC-12	71-3PNC-12
1	71-3PCC-16	71-3PNC-16



**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**71 Series Nipples**



Body Size	Part Number Steel	Port End	Part Number 316 Stainless Steel	Part Number High Pressure Stainless Steel	Port End	Length (in)	Largest Dia.	Wrench Flats
1/4	71-3N4-4F	1/4 - 18 NPTF	S71-3N4-4F	SH71-3N4-4F	1/4 - 18 NPTF	1.84	0.89	0.81
1/4	71-3N4-4EF	7/16 - 20 UNF	S71-3N4-4EF	-	7/16 - 20 UNF	1.84	0.89	0.81
3/8	71-3N6-4F	1/4 - 18 NPTF	-	-	-	1.84	1.18	1.00
3/8	71-3N6-6F	3/8 - 18 NPTF	S71-3N6-6F	SH71-3N6-6F	3/8 - 18 NPSF	2.32	1.18	1.00
3/8	71-3N6-6EF	9/16 - 18 UNF	S71-3N6-6EF	SH71-3N6-6EF	9/16 - 18 UNF	2.32	1.18	1.00
3/8	71-3N6-8F	1/2 - 14 NPTF	-	-	-	2.57	1.65	1.25
1/2	71-3N8-8F	1/2 - 14 NPTF	S71-3N8-8F	SH71-3N8-8F	1/2 - 14 NPSF	2.38	1.65	1.50
1/2	71-3N8-8EF	3/4 - 16 UNF	S71-3N8-8EF	SH71-3N8-8EF	3/4 - 16 UNF	2.38	1.65	1.50
3/4	71-3N12-12F	3/4 - 14 NPTF	S71-3N12-12F	SH71-3N12-12F	3/4 - 14 NPSF	2.96	1.92	1.75
3/4	71-3N12-12EF	1-1/16 - 12 UNF	S71-3N12-12EF	-	1-1/16 - 12 UNF	2.96	1.92	1.75
1	71-3N16-16F	1 - 11-1/2 NPTF	S71-3N16-16F	SH71-3N16-16F	1 - 11-1/2 NPSF	3.23	2.09	1.88
1	71-3N16-16EF	1-5/16 - 12 UNF	S71-3N16-16EF	-	1-5/16 - 12 UNF	3.23	2.09	1.88
1	71-3N16-20F	1-1/4 - 11-1/2 NPT	S71-3N16-20F	-	1-1/4 - 11-1/2 NPT	3.23	2.20	1.88
1	71-3N16-20EF	1-5/8 - 12 UNF	S71-3N16-20EF	-	1-5/8 - 12 UNF	3.23	2.20	1.88
2	71N32-24F	1-1/2 - 11-1/2 NPT	-	-	-	4.50	3.50	3.25
2	71N32-24EF	1-7/8 - 12 UNF	-	-	-	4.50	3.50	3.25
2	71N32-32F	2 - 11-1/2 NPT	-	-	-	4.50	3.50	3.25

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