

# **STAUFF Screw-to-connect coupling Flat-Face series FG**

Flat Face screw-to-connect couplings of the FG Series consist of a female body with a screw sleeve and a male tip with external thread. The Series is developed for particularly heavy-duty applications for connecting hydraulic lines up to DN31,5 (1 1/4").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The FG Series is available in nominal sizes 10, 12, 16, 19, 25, 31,5(3/8" - 11/4").

#### **Characteristics**

Series: FG Material: Steel

Surface protection: Zinc-Nickel

Valve shape: Flat face

Minimum medium temperature (continuous): -25 °C Maximum medium temperature (continuous): 100 °C Connectable under residual pressure: Yes, with restrictions

## **Application**

• Construction machinery, hydraulic trailers, lifting equipment, oil and gas industry (onshore), hydraulic tippers

#### **Technical Information**

#### Connect under pressure:

• male tip or female body up to 250 bar (3626 PSI) allowed

### **Execution**

Flat Face guick release couplings have the following advantages:

- The flat face valve design reduces the risk of leakage and wear
- Reducing the risk of contaminants from entering the system
- Powerful flow characteristics with minimal pressure drop

#### **Approval**

• The nominal sizes 12, 16, 19 and 25 are certified according to API-16D (American Petroleum Institute) and EUB Directive 036 by LRQA (Lloyd's Register).

struction size	Nominal bore in DN	Coupling size (inch)	Connection type	Connection size	Maximum operating pressure	Spillage	Max. flow rate	Sealing	Article
	mm				bar	ml	I/min		
2	10	3/8"	Internal thread	1/2" BSP cyl.	550	0.01	46	NBR/PTFE/PU	14508347
2	10	3/8"	Internal thread	1/2" NPT	550	0.01	46	NBR/PTFE/PU	14508349
2	10	3/8"	Internal thread	1/4" BSP cyl.	550	0.01	46	NBR/PTFE/PU	14508345
2	10	3/8"	Internal thread	3/4-16 UNF	550	0.01	46	NBR/PTFE/PU	14508350
2	10	3/8"	Internal thread	3/8" BSP cyl.	550	0.01	46	NBR/PTFE/PU	14508346
2	10	3/8"	Internal thread	3/8" NPT	550	0.01	46	NBR/PTFE/PU	14508348
3	12.5	1/2"	Internal thread	1.1/16-12 UN	550	0.01	90	NBR/PTFE/PU	14508362
3	12.5	1/2"	Internal thread	1/2" BSP cyl.	550	0.01	90	NBR/PTFE/PU	14508357
3	12.5	1/2"	Internal thread	1/2" NPT	550	0.01	90	NBR/PTFE/PU	14508358
3	12.5	1/2"	Internal thread	3/4" NPT	550	0.01	90	NBR/PTFE/PU	14508359
	2 2 2 2 2 2 3 3 3 3 3	size bore in DN mm  2 10 2 10 2 10 2 10 2 10 2 10 2 10 3 12.5 3 12.5 3 12.5	size bore in DN (inch)  mm  2     10     3/8"  2     10     3/8"  2     10     3/8"  2     10     3/8"  2     10     3/8"  2     10     3/8"  2     10     3/8"  3     12.5     1/2"  3     12.5     1/2"	size         bore in DN         (inch)         type           mm         3/8"         Internal thread           2         10         3/8"         Internal thread           3         12.5         1/2"         Internal thread	size         bore in DN         (inch)         type         size           mm         3/8"         Internal thread         1/2" BSP cyl.           2         10         3/8"         Internal thread         1/2" NPT           2         10         3/8"         Internal thread         1/4" BSP cyl.           2         10         3/8"         Internal thread         3/4-16 UNF           2         10         3/8"         Internal thread         3/8" BSP cyl.           2         10         3/8"         Internal thread         3/8" NPT           3         12.5         1/2"         Internal thread         1.1/16-12 UN           3         12.5         1/2"         Internal thread         1/2" BSP cyl.           3         12.5         1/2"         Internal thread         1/2" NPT           3         12.5         1/2"         Internal thread         1/2" NPT	Nominal size   Nominal size   Connection type   Connection size   Operating pressure	Nominal size   Nominal size   Dar   DN   Coupling size   Connection type   Spillage   Dar   DN   Dar   DN   Dar   DN   Dar   DN   Dar   DN   Dar   DN   DA   DA   DA   DA   DA   DA   DA	Nominal Size   Nominal Bore in DN   Size   Connection type   Spillage   Spillage   Max. How rate	Nominal bore in DN   Coupling size   Connection type   Connection size   Spillage   Sp

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

Page 1/3

PR1579278064777927\_EN\_12.05.2024

Type of component	Construction size	Nominal bore in DN	Coupling size (inch)	Connection type	Connection size	Maximum operating pressure	Spillage	Max. flow rate	Sealing	Article
Coupling		mm		Internal		bar	ml	I/min		
(female)	3	12.5	1/2"	thread	3/4-16 UNF	550	0.01	90	NBR/PTFE/PU	14508360
Coupling (female)	3	12.5	1/2"	Internal thread	7/8-14 UNF	550	0.01	90	NBR/PTFE/PU	14508361
Coupling (female)	4A	16	5/8"	Internal thread	1.1/16-12 UN	550	0.02	148	NBR/PTFE/PU	14508383
Coupling (female)	4A	16	5/8"	Internal thread	1" BSP cyl.	550	0.02	148	NBR/PTFE/PU	14508371
Coupling (female)	4A	16	5/8"	Internal thread	3/4" BSP cyl.	550	0.02	148	NBR/PTFE/PU	14508370
Coupling (female)	4A	16	5/8"	Internal thread	3/4" NPT	550	0.02	148	NBR/PTFE/PU	14508372
Coupling (female)	4	19	3/4"	Internal thread	1.5/16-12 UN	500	0.01	200	NBR/PTFE/PU	14508391
Coupling [female]	4	19	3/4"	Internal thread	1" BSP cyl.	500	0.01	200	NBR/PTFE/PU	14508389
Coupling (female)	4	19	3/4"	Internal thread	1" NPT	500	0.01	200	NBR/PTFE/PU	14508390
Coupling (female)	4	19	3/4"	Internal thread	3/4" BSP cyl.	500	0.01	200	NBR/PTFE/PU	14508388
Coupling [female]	5	25	1"	Internal thread	1.1/4" BSP cyl.	470	0.005	378	NBR/PTFE/PU	14508397
Coupling	5	25	1"	Internal	1.1/4" NPT	470	0.005	378	NBR/PTFE/PU	14508398
(female) Coupling	5	25	1"	thread Internal	1.5/8-12 UN	470	0.005	378	NBR/PTFE/PU	14508399
(female) Plug (male)	2	10	3/8"	thread Internal	1/2" BSP cyl.	550	0.01	46	NBR/PTFE/	14508353
Plug (male)	2	10	3/8"	thread Internal	1/2" NPT	550	0.01	46	POM/PU NBR/PTFE/	14508355
Plug (male)	2	10	3/8"	thread Internal	1/4" BSP cyl.	550	0.01	46	POM/PU NBR/PTFE/	14508351
	2	10	3/8"	thread Internal		550	0.01		POM/PU NBR/PTFE/	14508356
Plug (male)			·	thread Internal	3/4-16 UNF			46	POM/PU NBR/PTFE/	
Plug (male)	2	10	3/8"	thread Internal	3/8" BSP cyl.	550	0.01	46	POM/PU NBR/PTFE/	14508352
Plug (male)	2	10	3/8"	thread Internal	3/8" NPT	550	0.01	46	POM/PU NBR/PTFE/	14508354
Plug (male)	3	12.5	1/2"	thread	1.1/16-12 UN	550	0.01	90	POM/PU	14508369
Plug (male)	3	12.5	1/2"	Internal thread	1/2" BSP cyl.	550	0.01	90	NBR/PTFE/ POM/PU	14508363
Plug (male)	3	12.5	1/2"	Internal thread	1/2" NPT	550	0.01	90	NBR/PTFE/ POM/PU	14508365
Plug (male)	3	12.5	1/2"	Internal thread	3/4" BSP cyl.	550	0.01	90	NBR/PTFE/ POM/PU	14508364
Plug (male)	3	12.5	1/2"	Internal thread	3/4" NPT	550	0.01	90	NBR/PTFE/ POM/PU	14508366
Plug (male)	3	12.5	1/2"	Internal thread	3/4-16 UNF	550	0.01	90	NBR/PTFE/ POM/PU	14508367
Plug (male)	3	12.5	1/2"	Internal thread	7/8-14 UNF	550	0.01	90	NBR/PTFE/ POM/PU	14508368
Plug (male)	4A	16	5/8"	Internal thread	1.1/16-12 UN	550	0.02	148	NBR/PTFE/ POM/PU	14508387
Plug (male)	4A	16	5/8"	Internal thread	1" BSP cyl.	550	0.02	148	NBR/PTFE/ POM/PU	14508385
Plug (male)	4A	16	5/8"	Internal thread	3/4" BSP cyl.	550	0.02	148	NBR/PTFE/ POM/PU	14508384
Plug (male)	4A	16	5/8"	Internal thread	3/4" NPT	550	0.02	148	NBR/PTFE/ POM/PU	14508386
Plug (male)	4	19	3/4"	Cutting ring	20S - M30x2.0	500	0.01	200	NBR/PTFE/	14508392
Plug (male)	4	19	3/4"	connection Internal	1.5/16-12 UN	500	0.01	200	POM/PU NBR/PTFE/	14508396
Plug (male)	4	19	3/4"	thread Internal	1" BSP cyl.	500	0.01	200	POM/PU NBR/PTFE/	14508394
Plug (male)	4	19	3/4"	thread Internal	1" NPT	500	0.01	200	POM/PU NBR/PTFE/	14508395
	,	,5	<i>5</i> / 1	thread		300	0.01	200	POM/PU	300033
complete. ERIK	(S does not guara	ntee that the ir		ed on this docur	ment is up to date,			-	ne, becomes inacc ed is not intended	

**ERIKS** 

## Hydraulic quick release couplings | Screw to connect couplers

Type of component	Construction size	Nominal bore in DN	Coupling size (inch)	Connection type	Connection size	Maximum operating pressure	Spillage	Max. flow rate	Sealing	Article
		mm				bar	ml	I/min		
Plug (male)	4	19	3/4"	Internal thread	3/4" BSP cyl.	500	0.01	200	NBR/PTFE/ POM/PU	14508393
Plug (male)	5	25	1"	Cutting ring connection	30S - M42x2.0	470	0.005	378	NBR/PTFE/ POM/PU	14508400
Plug (male)	5	25	1"	Internal thread	1.1/4" BSP cyl.	470	0.005	378	NBR/PTFE/ POM/PU	14508401
Plug (male)	5	25	1"	Internal thread	1.1/4" NPT	470	0.005	378	NBR/PTFE/ POM/PU	14508402
Plug (male)	5	25	1"	Internal thread	1.5/8-12 UN	470	0.005	378	NBR/PTFE/ POM/PU	14508403

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

E-mail: hydraulics@eriks.nl

**ERIKS**