



SCF SERIES

Screw Connect Flat Face Quick Couplings

SCF Series Screw Connect Flat Face Couplers are designed to combine the advantages of a flat face design with the enhanced strength and reliability of a screw connection. This innovative design eliminates brinelling, ensuring a durable and secure connection even under high residual pressure in the hydraulic circuit. Ideal for demanding applications, the SCF Series couplers provide a robust, leak-free solution that enhances operational efficiency and system integrity.



Series SCF // Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel, Zinc-Plating
Standard Seal Material(s)	NBR (Buna-N®), PTFE, PU, POM ²
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Flat Face
Connection	Screw To Connect
Disconnection	Screw To Disconnect
Connect Under Pressure	Male Tip or Female Body up to 250 bar (3626 PSI) allowed
Application	Hammer circuits, High pressure pulse applications, Construction plant, mobile equipment, general industrial
ISO Interchange	-

² Alternative seal materials are available on request.

Features

- Coupling made from carbon steel with Zinc/Nickel surface coating
- Heavy duty internal components
- Male tip or female can be connected up to 250 bar (3626 PSI)
- High impulse resistance
- High strength materials

Applications

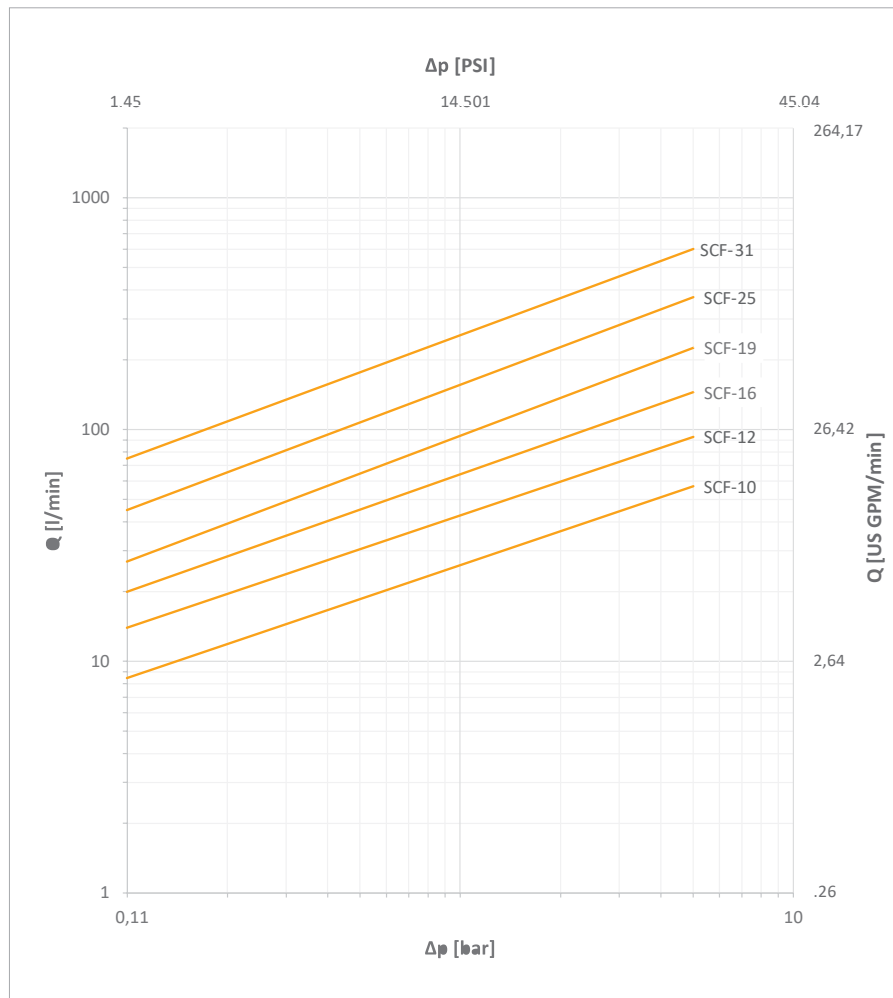
- Mobile drill rigs
- Oil field equipment
- Umbilical lines
- High impulse mobile circuits
- Excavator attachments



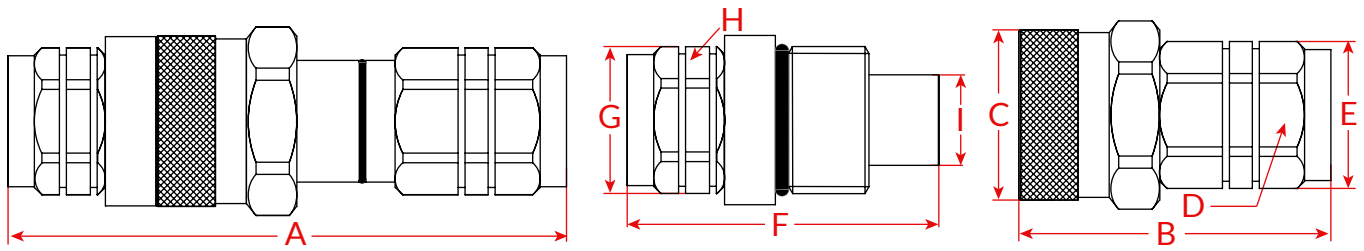
Technical Data

Series	IDN Inch	DN Metric	Q _{max}		Working Pressure		bursting puresure coupled		female body		male tip		spillage ml
			l/min	US GPM	bar	psi	bar	psi	bar	psi	bar	psi	
SCF-10	3/8"	10	46	12.15	550	7977	1400	20305	1000	14504	1400	20305	0.01
SCF-12	1/2"	12.5	90	23.77	550	7977	1400	20305	1000	14504	1400	20305	0.01
SCF-16	5/8"	16	148	39.09	550	7977	1400	20305	1000	14504	1400	20305	0.02
SCF-19	3/4"	19	200	52.83	500	7252	1400	<u>20305</u>	1000	14504	1400	<u>20305</u>	0.01
SCF-25	1"	25	378	99.86	470	6817	1200	17405	800	11603	1200	17405	0.005
SCF-31	1 1/4"	31	600	158.50	400	5802	1100	15954	1100	15954	1100	15954	

Flow Characteristics



Dimensions



Series	Size	Thread	Overall Length	F. Length	O.D	Hex	O.D	M. Length	O.D	Hex	O.D	Weight (g)	
			A	B	C	D	E	F	G	H	I	Female	Male
SCF-10	3/8"	3/8"	130	70	38	30	33	75.5	30	27	19.5	381	298
SCF-10	3/8"	1/2"	135	75	38	30	33	75.5	30	27	19.5	619	541
SCF-12	1/2"	1/2"	152	85	46	36	39	84.5	39	36	24.5	655	541
SCF-12	1/2"	3/4"	152	85	46	36	39	84.5	39	36	24.5	622	503
SCF-16	5/8"	3/4"	178	85	53.5	41	44	112	44	41	27	706	593
SCF-19	3/4"	1"	192.5	101	59	46	49	114.5	49	46	30	967	980
SCF-25	1"	1 1/4"	214.5	108	70	55	58	130.5	58	55	36	1618	1656
SCF-31	1 1/4"	1 1/2"	272	134	90	80	83	169	63	60	57	3572	3822

Dimensions in mm

The dimensions based on the BSPP Thread, other threads the dimensions would be different, please contact us for more information.

Code Rules

SCF - 10 F G3/8

①
②
③
④

- ① Series - SCF
- ② Body Size, 10 = 3/8", 12 = 1/2", ... 31 = 1 1/4"
- ③ Part, F = Female Coupler, M = Male Nipple, Blank = Set(Female+Male)
- ④ Thread Type and Size, the default thread is BSPP thread, G3/8", G1/2" etc.

