

VOF SERIES

INTERCHANGE > Similar Couplings (Oil & Gas)



BOP



TECHNICAL FEATURES AND OPTIONS

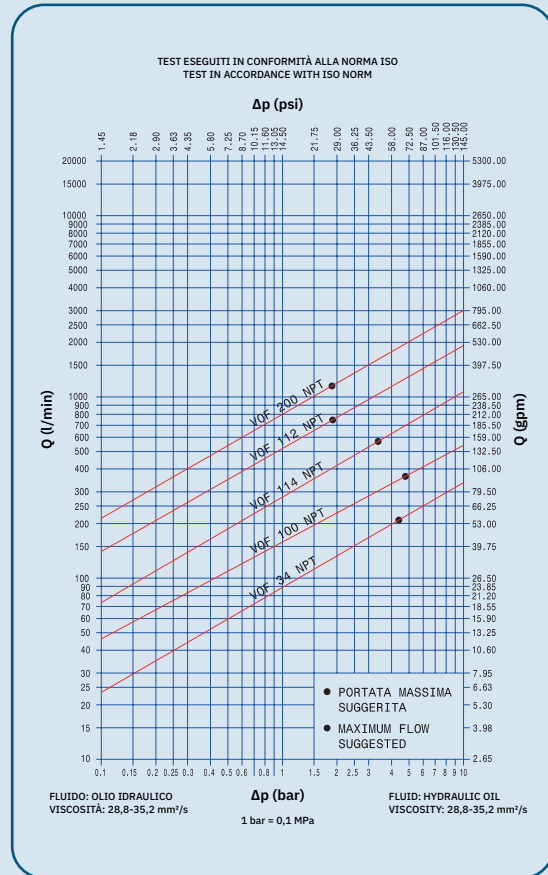
Interchange Similar Couplings (Oil & Gas)	Sealing description Nitrile NBR	Connection system Screw
Available sizes From 3/4" to 2"	Material/treatment Carbon steel /Cr3	Available threads BSP - NPT - SAE
Operating pressure Up to 345 bar	Locking mechanism Screw to connect	Flow rate Up to 1100 l/min
Temperature (°C) -20° / +100°	Valving style Poppet	Connection under pressure Connection: one side Disconnection: not allowed

BENEFITS

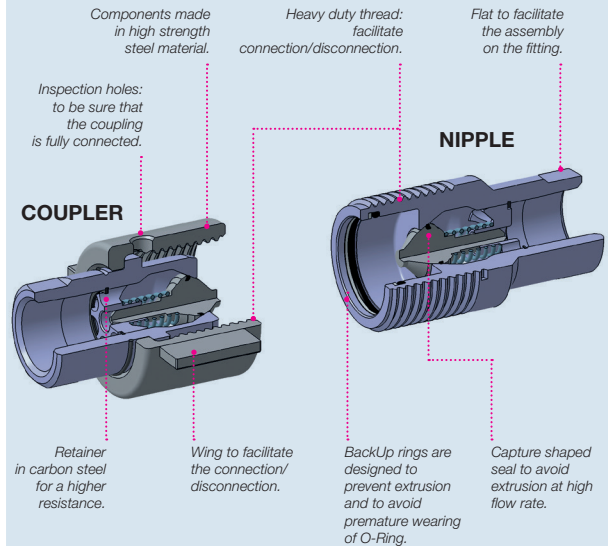
- Connection under residual pressure is allowed in one side.
- Inspection hole to control if the coupling is completely connected.
- All dimensions of Stucchi VOF series are certified with Lloyd Type Approval in accordance with API 16D at specific rating pressure of 345 bar/5000 psi for all sizes except size 2" that is 333 bar/4830 psi.
- Wrench flat on the bodies to facilitate the fitting assembly.
- The poppet valve with elastomer seal provides maximum sealing of the couplings when disconnected.
- Retainer in high resistance carbon steel.
- Shape of internal parts is designed to reduce turbulence and pressure drop.
- High resistance to pressure impulses (500.000 connected).
- Compact design.
- Simple to use.

HOW TO USE

- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect insert the nipple in the coupler, screw the sleeve until positive stop (surface contact of two moving parts), do not push together the couplings, screw only.
- The use of tools for the second part of the connection can be necessary if there is high residual pressure in the circuit.
- Check inspection holes to ensure that the coupling is fully connected (no free space allowed).
- To disconnect unscrew totally the sleeve from the nipple.



POPPET SCREW



MAIN APPLICATIONS



PERFORMANCES

Size		Series/Size	Max. flow suggested		Manual connect torque*		Manual disconnect torque*		Spillage**
Inch	mm		l/min	gpm	Nm	lbf ft	Nm	lbf ft	ml
3/4"	20	VOF34	212	56,18	1,2	0,89	0,6	0,44	11,5
1"	25	VOF100	378	100,17	1,6	1,18	1,1	0,81	21,2
1-1/4"	31,5	VOF114	576	152,64	2,8	2,07	1,9	1,40	42,3
1-1/2"	40	VOF112	758	200,87	4	2,95	3,6	2,66	82,6
2"	50	VOF200	1100	291,50	7,5	5,53	5,1	3,76	192,0

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Nipple		Coupler		Coupled		Nipple		Coupler	
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/4"	VOF34	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	100,0	14500
1"	VOF100	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	100,0	14500
1-1/4"	VOF114	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	100,0	14500
1-1/2"	VOF112	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	82,8	12000
2"	VOF200	34,5	5000	34,5	5000	34,5	5000	100,0	14500	90,0	13050	75,9	11000

* Connect torque and disconnect torque without residual pressure.

The torque will increase as internal residual pressure increases.

** Spillage is an indicative value of the fluid loss during disconnection (according to ISO norm test method).

All dimensions of Stucchi VOF series are certified with Lloyd Type. Approval in accordance with API 16D at specific rating pressure of 345 bar/5000 psi for all sizes except size 2" that is 333 bar/4830 psi. For complete technical information please contact Stucchi Technical Support.

Different possible configurations:

SAE thread available upon request.

Temperature range:

Standard seals NBR from -20 °C to +100 °C (from -4 °F to +212 °F).

Please read carefully Instructions and warnings for proper selection of the products.

Tests performed:

The connected couplings have been tested at maximum operating pressure for 500.000 impulses in according to ISO norm.

The couplings disconnected have been tested for 100.000 impulses.



WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not couple-uncouple with flow in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Do not use the coupling disconnected with high impulse pressure.

Connect under pressure products are suitable to be connected under residual (static) pressure.

Connection with residual pressure (pressure trapped in the circuit) allowed with other side coupling to drain.

Check the maximum allowable working pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

In case of doubt please contact Stucchi Technical Support.

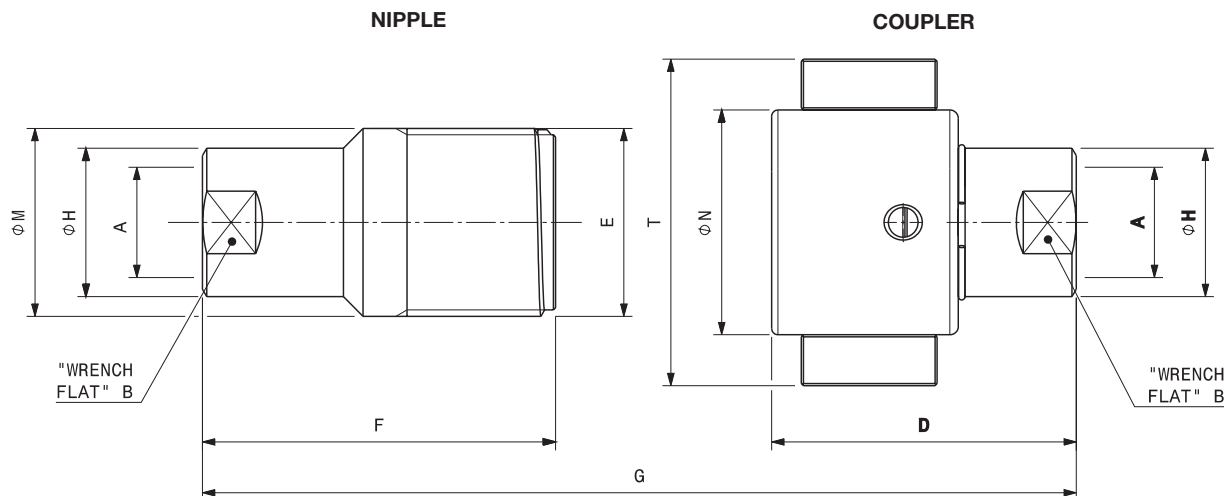
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.

Always refer to the version uploaded in the Instructions and warning section of stucchigroup.com website for the latest release.

For specific, product-related, instructions, please contact Stucchi technical service.

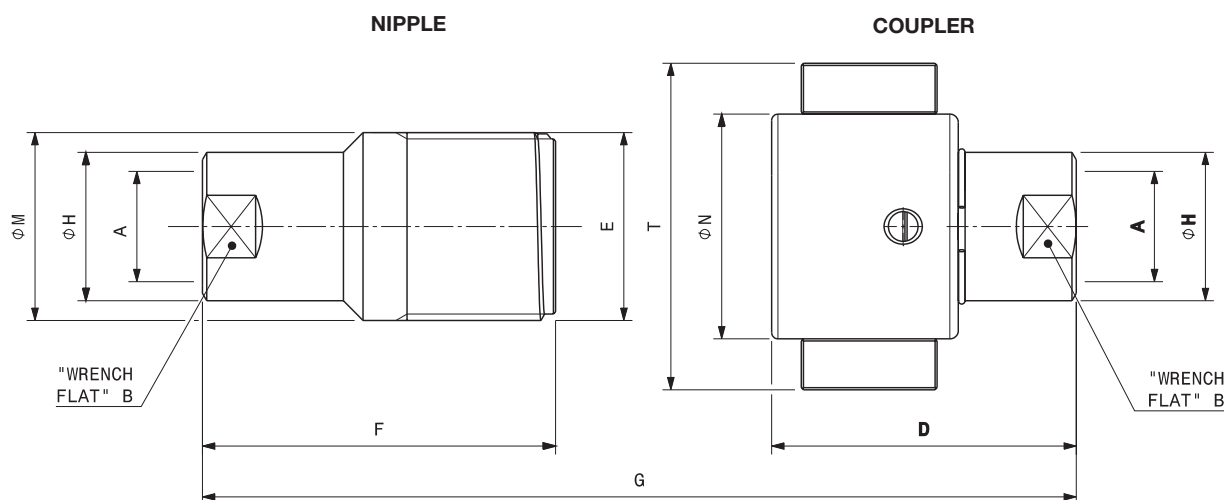
OVERALL DIMENSIONS



Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code	Item Code	PORT (A)	Thread	Overall Length			Length		Hex			Diameter					
					mm	inch		mm	inch		mm	inch		mm	inch			
3/4"	VOF34 NPT	Nipple	811201002	3/4"	E	1 3/4-8 special	G	123,6	4,87	F	83,2	3,28	B	31,8	1,25	H	35,0	1,38
	VOF34 NPT	Coupler	811201003							D	71,8	2,83						
1"	VOF100 NPT	Nipple	811201000	1"	E	2 1/4-6 Stub ACME	G	152,9	6,02	F	105,8	4,17	B	41,3	1,63	H	45,0	1,77
	VOF100 NPT	Coupler	811201001							D	87,3	3,44						
1-1/4"	VOF114 NPT	Nipple	811201004	1-1/4"	E	2 5/8-6 Stub ACME	G	197,9	7,79	F	136,7	5,38	B	50,8	2,00	H	54,5	2,15
	VOF114 NPT	Coupler	811201005							D	112,4	4,43						
1-1/2"	VOF112 NPT	Nipple	811201006	1-1/2"	E	3 1/4-4 Stub ACME	G	220,3	8,67	F	151,2	5,95	B	57,2	2,25	H	63,5	2,50
	VOF112 NPT	Coupler	811201007							D	126,9	5,00						
2"	VOF200 NPT	Nipple	811201008	2"	E	4-4 Stub ACME	G	255,2	10,05	F	179,0	7,05	B	76,2	3,00	H	82,6	3,25
	VOF200 NPT	Coupler	811201009							D	154,2	6,07						

BODY SIZE	Descriptive Code	Item Code		Diameter		Max overall dimension		Weight	
				mm	inch	mm	inch	Kg	Lbs
3/4"	VOF34 NPT	Nipple 811201002	M	44,3	1,74			0,48	1,05
	VOF34 NPT	Coupler 811201003	N	53,0	2,09	T	77,0	3,03	0,61
1"	VOF100 NPT	Nipple 811201000	M	57,2	2,25			1,19	2,62
	VOF100 NPT	Coupler 811201001	N	69,0	2,72	T	109,0	4,29	1,38
1-1/4"	VOF114 NPT	Nipple 811201004	M	66,7	2,62			1,95	4,30
	VOF114 NPT	Coupler 811201005	N	80,0	3,15	T	120,0	4,72	2,27
1-1/2"	VOF112 NPT	Nipple 811201006	M	82,6	3,25			3,22	7,11
	VOF112 NPT	Coupler 811201007	N	95,0	3,74	T	145,0	5,71	3,84
2"	VOF200 NPT	Nipple 811201008	M	101,6	4,00			6,04	13,32
	VOF200 NPT	Coupler 811201009	N	122,5	4,82	T	182,5	7,19	8,10



Port description: FEMALE THREAD BSPP (ISO 1179-1)

BODY SIZE	Descriptive Code	Item Code	PORT (A)	Thread	Overall Length			Length			Hex			Diameter			
					mm	inch		mm	inch		mm	inch		mm	inch		
3/4"	VOF34 BSP	Nipple 811200002	3/4"	E	1 3/4-8 special	G	123,6	4,87	F	83,2	3,28	B	31,8	1,25	H	35,0	1,38
	VOF34 BSP	Coupler 811200003							D	71,8	2,83						
1"	VOF100 BSP	Nipple 811200000	1"	E	2 1/4-6 Stub ACME	G	152,9	6,02	F	105,8	4,17	B	41,3	1,63	H	45,0	1,77
	VOF100 BSP	Coupler 811200001							D	87,3	3,44						
1-1/4"	VOF114 BSP	Nipple 811200004	1-1/4"	E	2 5/8-6 Stub ACME	G	197,9	7,79	F	136,7	5,38	B	50,8	2,00	H	54,5	2,15
	VOF114 BSP	Coupler 811200005							D	112,4	4,43						
1-1/2"	VOF112 BSP	Nipple 811200006	1-1/2"	E	3 1/4-4 Stub ACME	G	220,3	8,67	F	151,2	5,95	B	57,2	2,25	H	63,5	2,50
	VOF112 BSP	Coupler 811200007							D	126,9	5,00						
2"	VOF200 BSP	Nipple 811200008	2"	E	4-4 Stub ACME	G	255,2	10,05	F	179,0	7,05	B	76,2	3,00	H	82,6	3,25
	VOF200 BSP	Coupler 811200009							D	154,2	6,07						

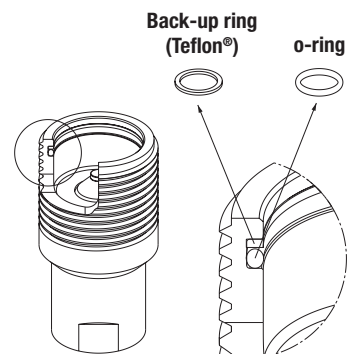
BODY SIZE	Descriptive Code	Item Code	Diameter			Max overall dimension		Weight		
				mm	inch		mm	inch	Kg	Lbs
3/4"	VOF34 BSP	Nipple 811200002	M	44,30	1,74				0,50	1,10
	VOF34 BSP	Coupler 811200003	N	53,00	2,09	T	77,0	3,03	0,63	1,38
1"	VOF100 BSP	Nipple 811200000	M	57,15	2,25				1,17	2,58
	VOF100 BSP	Coupler 811200001	N	69,00	2,72	T	109,0	4,29	1,35	2,99
1-1/4"	VOF114 BSP	Nipple 811200004	M	66,67	2,62				1,92	4,23
	VOF114 BSP	Coupler 811200005	N	80,00	3,15	T	120,0	4,72	2,24	4,93
1-1/2"	VOF112 BSP	Nipple 811200006	M	82,55	3,25				3,16	6,97
	VOF112 BSP	Coupler 811200007	N	95,00	3,74	T	145,0	5,71	3,82	8,43
2"	VOF200 BSP	Nipple 811200008	M	101,60	4,00				6,03	13,29
	VOF200 BSP	Coupler 811200009	N	122,50	4,82	T	182,5	7,19	8,09	17,83



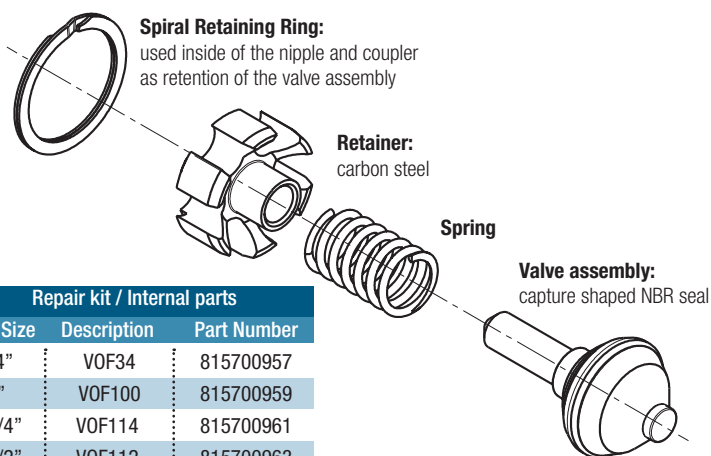
SPARE KIT SEAL FOR NIPPLE

Repair kit / OR+BK		
Body Size	Description	Part Number
3/4"	VOF34	815700956
1"	VOF100	815700958
1-1/4"	VOF114	815700960
1-1/2"	VOF112	815701122
2"	VOF200	815700964

O-Ring in Nitrile
BackUp in Teflon®



SPARE KIT INTERNAL PARTS

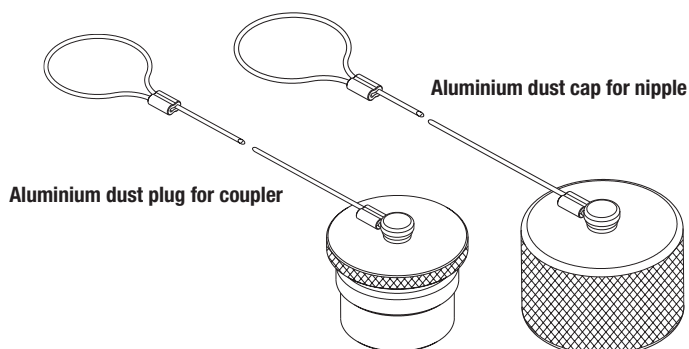


Repair kit / Internal parts		
Body Size	Description	Part Number
3/4"	VOF34	815700957
1"	VOF100	815700959
1-1/4"	VOF114	815700961
1-1/2"	VOF112	815700963
2"	VOF200	815700965

*same codes for coupler or nipple

PROTECTIVE CAPS FOR VOF SERIES

Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in Oil&Gas and mobile applications where exposure to weather and aggregate materials are common. The protective caps for VOF couplings are manufactured in aluminum (natural color).



Protective Cap			
Body Size/Description	Part Number		Material/Color
	Plug for Coupler	Cap for Nipple	
3/4"	815405013	815405012	Aluminum/Natural
1"	815405011	815405010	Aluminum/Natural
1-1/4"	815405015	815405014	Aluminum/Natural
1-1/2"	815405017	815405016	Aluminum/Natural
2"	815405019	815405018	Aluminum/Natural