

Technical Specifications

Body Size	Pressure Rating				Burst Pressure						Max. Pressure Connect ³		Max. Pressure Disconnect ³		Rated Flow $\Delta P=21.75$ PSI	
	ISO Working ¹		Max. Impulse ²		Connected		Coupler		Plug		PSI	MPa	PSI	MPa	GPM	L/min
	PSI	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	MPa		
1/4"	6,000	40	9,000	62	24,000	165	22,000	152	22,000	152	5,500	38	5,500	38	3.5	13
3/8"	5,500	38	8,000	55	22,000	152	18,000	124	20,000	138	4,500	31	4,500	31	10.5	40
1/2"	5,500	38	8,000	55	22,000	152	18,000	124	20,000	138	4,500	31	4,500	31	17.5	66
3/4"	5,500	38	8,000	55	22,000	152	18,000	124	20,000	138	4,500	31	4,500	31	22.7	85
1"	5,500	38	7,500	52	22,000	152	14,500	100	20,000	138	3,625	25	3,625	25	32.5	123
1 1/4"	5,000	35	7,000	48	20,000	138	14,500	100	16,000	110	3,625	25	3,625	25	46.4	174
1 1/2"	4,500	31	5,800	40	18,000	124	12,000	83	14,500	100	3,000	21	3,000	21	95.0	360
2"	4,000	28	5,000	35	18,000	124	12,000	83	14,500	100	3,000	21	3,000	21	172.5	653

¹ Couplings Impulse tested in accordance with ISO7241-2 for 1,000,000 cycles connected and 100,000 cycles disconnected at 133% of ISO Working Pressure.

² Couplings Impulse tested in accordance with ISO7241-2 for 100,000 cycles connected and disconnected at Maximum Impulse pressure listed

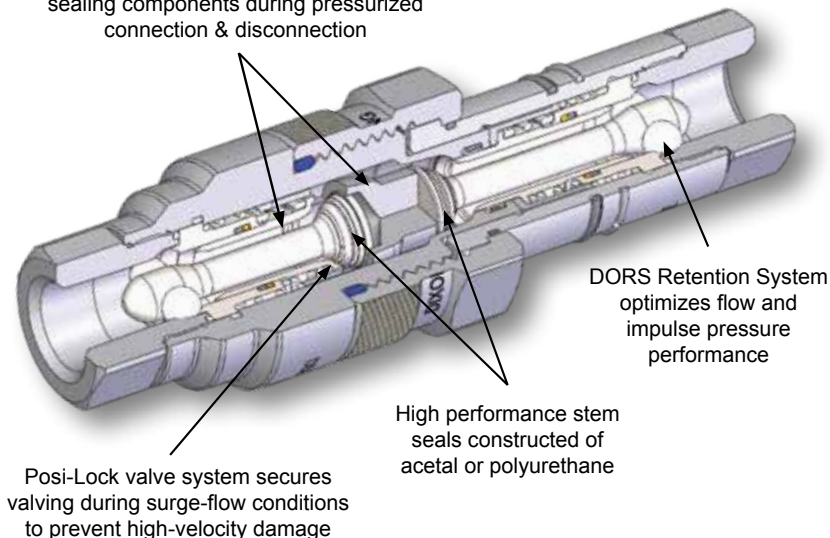
³ System temperature for Maximum Connect/Disconnect Pressure must not exceed 150°F (65°C)

How to Connect & Disconnect the VEP-Series Coupling

1. Prior to connecting, thoroughly clean all mating surfaces and threads on both halves, then pull the coupler sleeve forward.
2. To initiate the connection, align the coupler and plug, pushing/turning the coupler sleeve towards the plug while engaging the threads.
3. Allow the threads to pull the coupler onto the plug, do not push the coupler onto the plug.
4. The first phase of the connection should be threaded by hand, without the use of tools. Please note the connection sleeve may seize when dirt and debris accumulate in the threads - wipe away debris with a cloth, compressed air, or a brush.
5. The second phase of the connection may require a wrench if the pressure is higher than anticipated.
6. Continue to thread the coupler sleeve onto the plug until the end of the sleeve meets the plug body.
7. To disconnect, use a wrench to break the coupler sleeve free and keep the mating halves aligned during the disconnection process.

Attributes:

Two-stage valving to protect critical sealing components during pressurized connection & disconnection



VEP-Series Coupling

Applications:

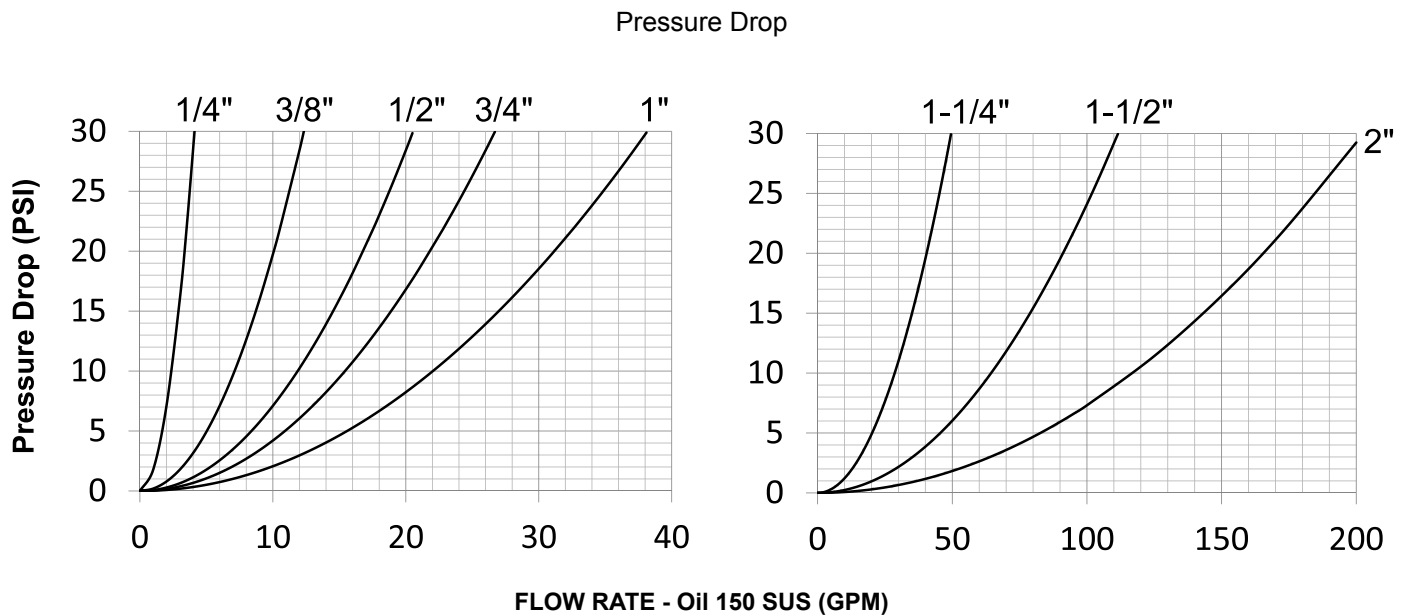
- high impulse hydraulic applications
- oil field equipment
- BOP accumulator systems
- construction equipment
- crane systems
- *anywhere there's a need for a tough, reliable hydraulic connection*

Features:

- fully interchangeable with Stucchi VEP/VEP-HD, DNP FSI/PST4, Parker FET, Holmbury HFT, Voswinkel FT
- available with NPTF, BSPP, Code 62 and ORB end connections
- improved connect and disconnect performance up to **5,500 PSI**
- patented valve mechanism optimizes flow and pressure performance
- superior corrosion resistance using ROHS compliant zinc nickel plating

Specifications:

- temperature range: **-40°F to 212°F (-40°C to 100°C)**



Female Threaded Couplers



Size	Thread	Length		Maximum OD		Hex Inch	Part #
		in	mm	in	mm		
1/4	1/4" - 18 NPTF	2.14	54.4	1.49	37.8	7/8"	2VEPF2
1/4	1/4" - 19 BSPP	2.14	54.4	1.49	37.8	7/8"	2VEPBF2
1/4	9/16" - 18 ORB	2.14	54.4	1.49	37.8	7/8"	2VEPOF3
3/8"	3/8" - 18 NPTF	2.55	64.8	1.62	41.1	1"	3VEPF3
3/8"	3/8" - 19 BSPP	2.55	64.8	1.62	41.1	1"	3VEPBF3
3/8"	3/4" - 16 ORB	2.77	70.4	1.62	41.1	1"	3VEPOF4
3/8"	1/2" - 14 NPTF	2.77	70.4	1.62	41.1	1 1/8"	3VEPF4
3/8"	1/2" - 14 BSPP	2.77	70.4	1.62	41.1	1 1/8"	3VEPBF4
1/2"	1/2" - 14 NPTF	3.08	78.2	1.98	50.3	1 3/16"	4VEPF4
1/2"	1/2" - 14 BSPP	3.08	78.2	1.98	50.3	1 3/16"	4VEPBF4
1/2"	3/4" - 16 ORB	3.08	78.2	1.98	50.3	1 3/16"	4VEPOF4
1/2"	7/8" - 14 ORB	3.18	80.8	1.98	50.3	1 1/4"	4VEPOF5
1/2"	3/4" - 14 NPTF	3.38	85.9	1.98	50.3	1 1/2"	4VEPF6
1/2"	3/4" - 14 BSPP	3.38	85.9	1.98	50.3	1 1/2"	4VEPBF6
1/2"	1 1/16" - 12 ORB	3.58	90.9	1.98	50.3	1 1/2"	4VEPOF6
3/4"	3/4" - 14 NPTF	3.37	85.6	2.19	55.6	1 1/2"	6VEPF6
3/4"	3/4" - 14 BSPP	3.37	85.6	2.19	55.6	1 1/2"	6VEPBF6
3/4"	1 1/16" - 12 ORB	3.37	85.6	2.19	55.6	1 1/2"	6VEPOF6
1"	1" - 11 1/2 NPTF	3.89	98.8	2.46	62.5	1 3/4"	8VEPF8
1"	1" - 11 BSPP	3.89	98.8	2.46	62.5	1 3/4"	8VEPBF8
1"	1 5/16" - 12 ORB	3.89	98.8	2.46	62.5	1 3/4"	8VEPOF8
1 1/4"	1 1/4" - 11 1/2 NPTF	4.40	111.8	2.70	68.6	2 3/16"	10VEPF10
1 1/4"	1 1/4" - 11 BSPP	4.40	111.8	2.70	68.6	2 3/16"	10VEPBF10
1 1/4"	1 5/8" - 12 ORB	4.40	111.8	2.70	68.6	2 3/16"	10VEPOF10
1 1/2"	1 1/2" - 11 1/2 NPTF	5.28	134.1	3.74	95.0	2 1/2"	12VEPF12
1 1/2"	1 1/2" - 11 BSPP	5.28	134.1	3.74	95.0	2 1/2"	12VEPBF12
1 1/2"	1 7/8" - 12 ORB	5.28	134.1	3.74	95.0	2 1/2"	12VEPOF12
2"	2" - 11 1/2 NPTF	9.42	239.3	7.39	187.7	3 1/2"	16VEPF16
2"	2" - 11 BSPP	9.42	239.3	7.39	187.7	3 1/2"	16VEPBF16
2"	2" - 12 ORB	9.42	239.3	7.39	187.7	3 1/2"	16VEPOF16

Female Threaded Plugs



Size	Thread	Length		Maximum OD		Hex Inch	Part #
		in	mm	in	mm		
1/4"	1/4" - 18 NPTF	2.67	67.8	1.35	34.3	7/8"	VEP2F2
1/4"	1/4" - 19 BSPP	2.67	67.8	1.35	34.3	7/8"	VEP2BF2
1/4"	9/16" - 18 ORB	2.67	67.8	1.35	34.3	7/8"	VEP2OF3
3/8"	3/8" - 18 NPTF	3.28	83.3	1.48	37.6	1"	VEP3F3
3/8"	3/8" - 19 BSPP	3.28	83.3	1.48	37.6	1"	VEP3BF3
3/8"	3/4" - 16 ORB	3.50	88.9	1.48	37.6	1"	VEP3OF4
3/8"	1/2" - 14 NPTF	3.50	88.9	1.48	37.6	1 1/8"	VEP3F4
3/8"	1/2" - 14 BSPP	3.50	88.9	1.48	37.6	1 1/8"	VEP3BF4
1/2"	1/2" - 14 NPTF	3.87	98.3	1.86	47.2	1 3/16"	VEP4F4
1/2"	1/2" - 14 BSPP	3.87	98.3	1.86	47.2	1 3/16"	VEP4BF4
1/2"	3/4" - 16 ORB	3.87	98.3	1.86	47.2	1 3/16"	VEP4OF4
1/2"	7/8" - 14 ORB	3.97	100.8	1.86	47.2	1 1/4"	VEP4OF5
1/2"	3/4" - 14 NPTF	4.07	103.4	1.86	47.2	1 1/2"	VEP4F6
1/2"	3/4" - 14 BSPP	4.07	103.4	1.86	47.2	1 1/2"	VEP4BF6
1/2"	1 1/16" - 12 ORB	4.27	108.5	1.86	47.2	1 1/2"	VEP4OF6
3/4"	3/4" - 14 NPTF	4.12	104.6	1.98	50.3	1 1/2"	VEP6F6
3/4"	3/4" - 14 BSPP	4.12	104.6	1.98	50.3	1 1/2"	VEP6BF6
3/4"	1 1/16" - 12 ORB	4.12	104.6	1.98	50.3	1 1/2"	VEP6OF6
1"	1" - 11 1/2 NPTF	4.95	125.7	2.20	55.9	1 3/4"	VEP8F8
1"	1" - 11 BSPP	4.95	125.7	2.20	55.9	1 3/4"	VEP8BF8
1"	1 5/16" - 12 ORB	4.95	125.7	2.20	55.9	1 3/4"	VEP8OF8
1 1/4"	1 1/4" - 11 1/2 NPTF	5.43	137.9	2.73	69.3	2 3/16"	VEP10F10
1 1/4"	1 1/4" - 11 BSPP	5.43	137.9	2.73	69.3	2 3/16"	VEP10BF10
1 1/4"	1 5/8" - 12 ORB	5.43	137.9	2.73	69.3	2 3/16"	VEP10OF10
1 1/2"	1 1/2" - 11 1/2 NPTF	6.63	168.4	3.74	95.0	2 1/2"	VEP12F12
1 1/2"	1 1/2" - 11 BSPP	6.63	168.4	3.74	95.0	2 1/2"	VEP12BF12
1 1/2"	1 7/8" - 12 ORB	6.63	168.4	3.74	95.0	2 1/2"	VEP12OF12
2"	2" - 11 1/2 NPTF	11.08	281.4	5.70	144.8	3 1/2"	VEP16F16
2"	2" - 11 BSPP	11.08	281.4	5.70	144.8	3 1/2"	VEP16BF16
2"	2" - 12 ORB	11.08	281.4	5.70	144.8	3 1/2"	VEP16OF16

Code 62

Flange Head Couplers



flange head coupler

Body Size	Port Size	Steel Part #
3/4"	3/4"	6VEPFH6
1"	1"	8VEPFH8
1 1/4"	1 1/4"	10VEPFH10
1 1/2"	1 1/2"	12VEPFH12
2"	2"	16VEPFH16

Flange Head Plugs



flange head plug

Body Size	Port Size	Steel Part #
3/4"	3/4"	VEP6FH6
1"	1"	VEP8FH8
1 1/4"	1 1/4"	VEP10FH10
1 1/2"	1 1/2"	VEP12FH12
2"	2"	VEP16FH16

Flange Pad Couplers



flange pad coupler

Body Size	Port Size	Steel Part #
3/4"	3/4"	6VEFPF6
1"	1"	8VEFPF8
1 1/4"	1 1/4"	10VEFPF10
1 1/2"	1 1/2"	12VEFPF12
2"	2"	16VEFPF16

Flange Pad Plugs



flange pad plug

Body Size	Port Size	Steel Part #
3/4"	3/4"	VEP6FP6
1"	1"	VEP8FP8
1 1/4"	1 1/4"	VEP10FP10
1 1/2"	1 1/2"	VEP12FP12
2"	2"	VEP16FP16

Dust Caps and Dust Plugs



Size	Material	Part #
1/4"	aluminum	VEP2DC-A
3/8"	aluminum	VEP3DC-A
1/2"	aluminum	VEP4DC-A
3/4"	aluminum	VEP6DC-A
1"	aluminum	VEP8DC-A
1 1/4"	aluminum	VEP10DC-A
1 1/2"	aluminum	VEP12DC-A
2"	aluminum	VEP16DC-A

Size	Material	Part #
1/4"	aluminum	2VEPDP-A
3/8"	aluminum	3VEPDP-A
1/2"	aluminum	4VEPDP-A
3/4"	aluminum	6VEPDP-A
1"	aluminum	8VEPDP-A
1 1/4"	aluminum	10VEPDP-A
1 1/2"	aluminum	12VEPDP-A
2"	aluminum	16VEPDP-A

VEP-BOP Series Hydraulic Couplings

Features:

- red powder coated components and external O-rings for easy BOP service identification
- steel components are plated using ROHS compliant zinc nickel
- blow-out preventer (BOP) coupling critical seals are severe service FKM
- interchangeable with Stucchi VEP/VEP-HD Series, DNP FSI-BOP Series

Specification:

- pressure rating **5000 PSI**

Approvals:

- BOP couplings have been fire tested and Lloyd's certified to **1300°F (700°C)** in accordance with API 16D
- certificate available upon request

Female Threaded Couplers

Body Size	Threads	Steel Part #
3/8"	3/8" - 18 NPTF	3VEPF3-BOP
1/2"	1/2" - 14 NPTF	4VEPF4-BOP
3/4"	3/4" - 14 NPTF	6VEPF6-BOP
1"	1" - 11 1/2 NPTF	8VEPF8-BOP
1 1/4"	1 1/4" - 11 1/2 NPTF	10VEPF10-BOP
1 1/2"	1 1/2" - 11 1/2 NPTF	12VEPF12-BOP



Female Threaded Plugs

Body Size	Threads	Steel Part #
3/8"	3/8" - 18 NPTF	VEP3F3-BOP
1/2"	1/2" - 14 NPTF	VEP4F4-BOP
3/4"	3/4" - 14 NPTF	VEP6F6-BOP
1"	1" - 11 1/2 NPTF	VEP8F8-BOP
1 1/4"	1 1/4" - 11 1/2 NPTF	VEP10F10-BOP
1 1/2"	1 1/2" - 11 1/2 NPTF	VEP12F12-BOP



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