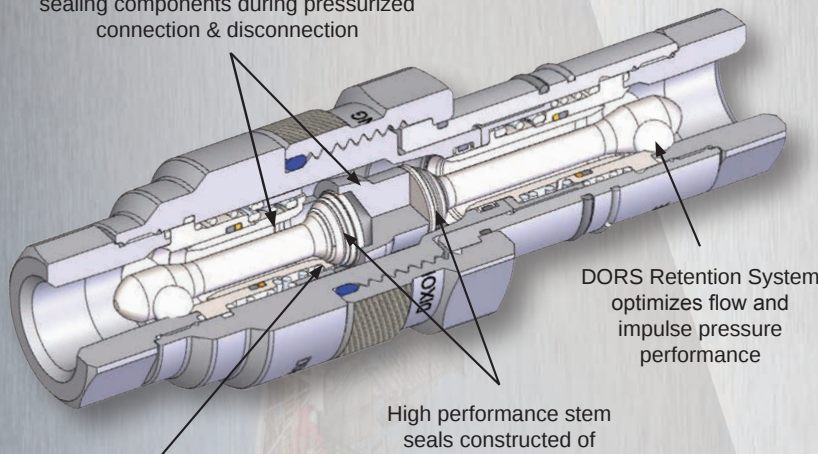




The Right Connection®

Attributes:

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



DORS Retention System optimizes flow and impulse pressure performance

Posi-Lock valve system secures valving during surge-flow conditions to prevent high-velocity damage

High performance stem seals constructed of acetal or polyurethane

VEP Series Hydraulic Quick Disconnect Couplings

Customer Service: 877.963.4966

Features:

- Fully Interchangeable with Stucchi VEP-P/VEP-HD Series, DNP PST4 Series, Voswinkel FT Series, and Parker FET-Series
- Available with NPTF, BSPP, ORB, and Optional Code 62 Connections
- Improved Connect and Disconnect Performance Up To 5,500 PSI
- Patented Valve Mechanism Optimizes Flow and Pressure Performance
- Improved Corrosion Resistance Using ROHS Compliant Trivalent Chrome Plating
- Temperature Range: -22°F to +212°F (-30°C to +100°C)

Applications:

- High Impulse Hydraulic Applications
- Oil Field Equipment
- BOP Systems
- Construction Equipment
- Excavators
- Crane Systems
- *Anywhere there's a need for a tough, reliable hydraulic connection!*



Proudly made in the USA

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						
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.

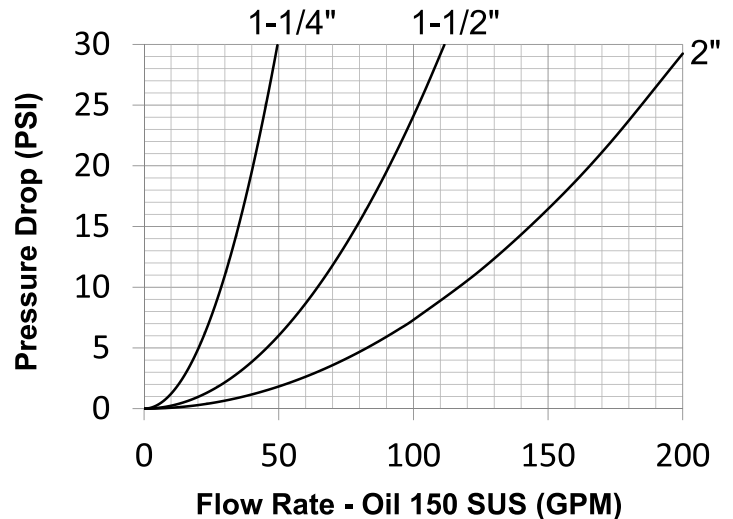
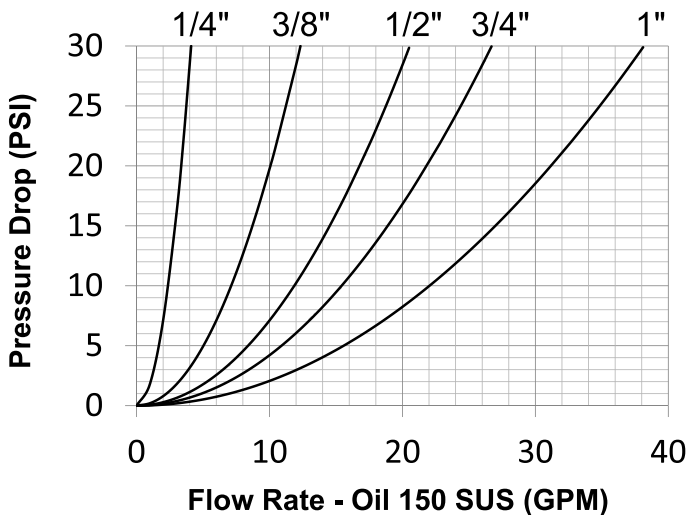
² Couplings Impulse tested in accordance with ISO7241-2 for 100,000 cycles connected and disconnected at Maximum Impulse pressure listed

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.

Pressure Drop



VEP Series Components

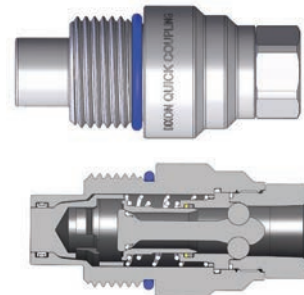
Size	Part #	Thread	Length		Maximum OD		Weight Lb.	Hex Inch
			in	mm	in	mm		
1/4"	2VEPF2	1/4" - 18 NPTF	2.14	54.4	1.49	37.8	0.49	7/8"
1/4"	2VEPBF2	1/4" - 19 BSPP	2.14	54.4	1.49	37.8	0.49	7/8"
1/4"	2VEPOF3	9/16" - 18 ORB	2.14	54.4	1.49	37.8	0.49	7/8"
3/8"	3VEPF3	3/8" - 18 NPTF	2.55	64.8	1.62	41.1	0.63	1"
3/8"	3VEPBF3	3/8" - 19 BSPP	2.55	64.8	1.62	41.1	0.63	1"
3/8"	3VEPOF4	3/4" - 16 ORB	2.77	70.4	1.62	41.1	0.67	1"
3/8"	3VEPF4	1/2" - 14 NPTF	2.77	70.4	1.62	41.1	0.66	1-1/8"
3/8"	3VEPBF4	1/2" - 14 BSPP	2.77	70.4	1.62	41.1	0.66	1-1/8"
1/2"	4VEPF4	1/2" - 14 NPTF	3.08	78.2	1.98	50.3	1.36	1-3/16"
1/2"	4VEPBF4	1/2" - 14 BSPP	3.08	78.2	1.98	50.3	1.36	1-3/16"
1/2"	4VEPOF4	3/4" - 16 ORB	3.08	78.2	1.98	50.3	1.38	1-3/16"
1/2"	4VEPOF5	7/8" - 14 ORB	3.18	80.8	1.98	50.3	1.43	1-1/4"
1/2"	4VEPF6	3/4" - 14 NPTF	3.38	85.9	1.98	50.3	1.57	1-1/2"
1/2"	4VEPBF6	3/4" - 14 BSPP	3.38	85.9	1.98	50.3	1.57	1-1/2"
1/2"	4VEPOF6	1-1/16" - 12 ORB	3.58	90.9	1.98	50.3	1.59	1-1/2"
3/4"	6VEPF6	3/4" - 14 NPTF	3.37	85.6	2.19	55.6	1.70	1-1/2"
3/4"	6VEPBF6	3/4" - 14 BSPP	3.37	85.6	2.19	55.6	1.70	1-1/2"
3/4"	6VEPOF6	1-1/16" - 12 ORB	3.37	85.6	2.19	55.6	1.70	1-1/2"
1"	8VEPF8	1" - 11 1/2 NPTF	3.89	98.8	2.46	62.5	2.44	1-3/4"
1"	8VEPBF8	1" - 11 BSPP	3.89	98.8	2.46	62.5	2.44	1-3/4"
1"	8VEPOF8	1-5/16" - 12 ORB	3.89	98.8	2.46	62.5	2.44	1-3/4"
1-1/4"	10VEPF10	1-1/4" - 11 1/2 NPTF	4.40	111.8	2.70	68.6	3.76	2-3/16"
1-1/4"	10VEPBF10	1-1/4" - 11 BSPP	4.40	111.8	2.70	68.6	3.76	2-3/16"
1-1/4"	10VEPOF10	1-5/8" - 12 ORB	4.40	111.8	2.70	68.6	3.75	2-3/16"
1-1/2"	12VEPF12	1-1/2" - 11 1/2 NPTF	5.28	134.1	3.74	95.0	9.09	2-1/2"
1-1/2"	12VEPBF12	1-1/2" - 11 BSPP	5.28	134.1	3.74	95.0	9.09	2-1/2"
1-1/2"	12VEPOF12	1-7/8" - 12 ORB	5.28	134.1	3.74	95.0	9.10	2-1/2"
2"	16VEPF16	2" - 11 1/2 NPTF	9.42	239.3	7.39	187.7	33.56	3-1/2"
2"	16VEPBF16	2" - 11 BSPP	9.42	239.3	7.39	187.7	33.56	3-1/2"
2"	16VEPOF16	2" - 12 ORB	9.42	239.3	7.39	187.7	33.56	3-1/2"

Couplers



Size	Part #	Thread	Length		Maximum OD		Weight Lb.	Hex Inch
			in	mm	in	mm		
1/4"	VEP2F2	1/4" - 18 NPTF	2.67	67.8	1.35	34.3	0.53	7/8"
1/4"	VEP2BF2	1/4" - 19 BSPP	2.67	67.8	1.35	34.3	0.53	7/8"
1/4"	VEP2OF3	9/16" - 18 ORB	2.67	67.8	1.35	34.3	0.53	7/8"
3/8"	VEP3F3	3/8" - 18 NPTF	3.28	83.3	1.48	37.6	0.76	1"
3/8"	VEP3BF3	3/8" - 19 BSPP	3.28	83.3	1.48	37.6	0.76	1"
3/8"	VEP3OF4	3/4" - 16 ORB	3.50	88.9	1.48	37.6	0.79	1"
3/8"	VEP3F4	1/2" - 14 NPTF	3.50	88.9	1.48	37.6	0.78	1-1/8"
3/8"	VEP3BF4	1/2" - 14 BSPP	3.50	88.9	1.48	37.6	0.78	1-1/8"
1/2"	VEP4F4	1/2" - 14 NPTF	3.87	98.3	1.86	47.2	1.30	1-3/16"
1/2"	VEP4BF4	1/2" - 14 BSPP	3.87	98.3	1.86	47.2	1.30	1-3/16"
1/2"	VEP4OF4	3/4" - 16 ORB	3.87	98.3	1.86	47.2	1.30	1-3/16"
1/2"	VEP4OF5	7/8" - 14 ORB	3.97	100.8	1.86	47.2	1.35	1-1/4"
1/2"	VEP4F6	3/4" - 14 NPTF	4.07	103.4	1.86	47.2	1.49	1-1/2"
1/2"	VEP4BF6	3/4" - 14 BSPP	4.07	103.4	1.86	47.2	1.49	1-1/2"
1/2"	VEP4OF6	1-1/16" - 12 ORB	4.27	108.5	1.86	47.2	1.51	1-1/2"
3/4"	VEP6F6	3/4" - 14 NPTF	4.12	104.6	1.98	50.3	1.84	1-1/2"
3/4"	VEP6BF6	3/4" - 14 BSPP	4.12	104.6	1.98	50.3	1.84	1-1/2"
3/4"	VEP6OF6	1-1/16" - 12 ORB	4.12	104.6	1.98	50.3	1.84	1-1/2"
1"	VEP8F8	1" - 11 1/2 NPTF	4.95	125.7	2.20	55.9	2.65	1-3/4"
1"	VEP8BF8	1" - 11 BSPP	4.95	125.7	2.20	55.9	2.65	1-3/4"
1"	VEP8OF8	1-5/16" - 12 ORB	4.95	125.7	2.20	55.9	2.65	1-3/4"
1-1/4"	VEP10F10	1-1/4" - 11 1/2 NPTF	5.43	137.9	2.73	69.3	3.18	2-3/16"
1-1/4"	VEP10BF10	1-1/4" - 11 BSPP	5.43	137.9	2.73	69.3	3.18	2-3/16"
1-1/4"	VEP10OF10	1-5/8" - 12 ORB	5.43	137.9	2.73	69.3	3.17	2-3/16"
1-1/2"	VEP12F12	1-1/2" - 11 1/2 NPTF	6.63	168.4	3.74	95.0	9.02	2-1/2"
1-1/2"	VEP12BF12	1-1/2" - 11 BSPP	6.63	168.4	3.74	95.0	9.02	2-1/2"
1-1/2"	VEP12OF12	1-7/8" - 12 ORB	6.63	168.4	3.74	95.0	9.03	2-1/2"
2"	VEP16F16	2" - 11 1/2 NPTF	11.08	281.4	5.70	144.8	28.35	3-1/2"
2"	VEP16BF16	2" - 11 BSPP	11.08	281.4	5.70	144.8	28.35	3-1/2"
2"	VEP16OF16	2" - 12 ORB	11.08	281.4	5.70	144.8	28.35	3-1/2"

Nipples



Code 62 flange connections available with extended lead times
See next page for dust caps and dust plugs

Dust Plugs



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

Dust Caps



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

For pricing and other information on the VEP series,
refer to the Dixon Quick Coupling catalog
or call 877.963.4966



Visit the Dixon website



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