

Hydraulic Couplings: W-Series

Interchange Data

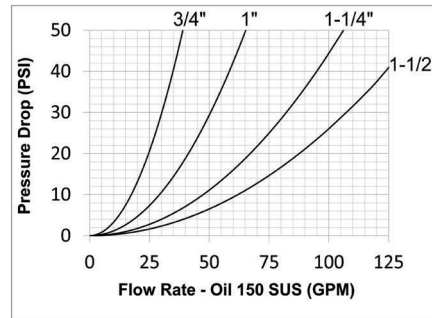
- Eaton/Aeroquip 5100-Series, Parker 6100-Series
- Snap-Tite 78-Series, Faster Series-FB, Safeway S51-Series

Materials

- Machined components are manufactured using solid steel and brass bar stock
- Stainless steel retaining rings and springs maximize corrosion resistance and extend service life
- Steel componentry is plated using ROHS-compliant trivalent chrome
- Rugged steel wing nut for threaded connect and disconnect operation
- For steel models, coupler valve sleeve and plug valve are constructed of brass

Seal Components

- Nitrile (Buna-N) seals are standard, providing a temperature range of -40°F to 250°F (-40°C to 121°C)
- Couplings have a TPC-ET back-up ring on the main coupler valve sleeve to extend service life
- Main coupler valve has a bonded face-seal to improve seal integrity during pressurized connection/disconnection
- Plug valve seal is crimped to improve seal integrity and prolong service life; 1-1/2" has bonded plug valve
- External O-ring on plug indicates full connection and acts as a contamination shield in connected mode
- Redundant O-ring on the coupler body will engage plug for secondary sealing support



Rated Pressure Chart

Body Size	W-Series Wingstyle Interchange (Connected)			
	Coupler/Plug			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	3,000	207	14,000	965
3/8"	3,000	207	13,000	897
3/4"	3,000	207	13,000	897
1"	4,000	276	16,000	1,103
1-1/4"	3,000	207	12,000	828
1-1/2"	2,500	172	10,000	690

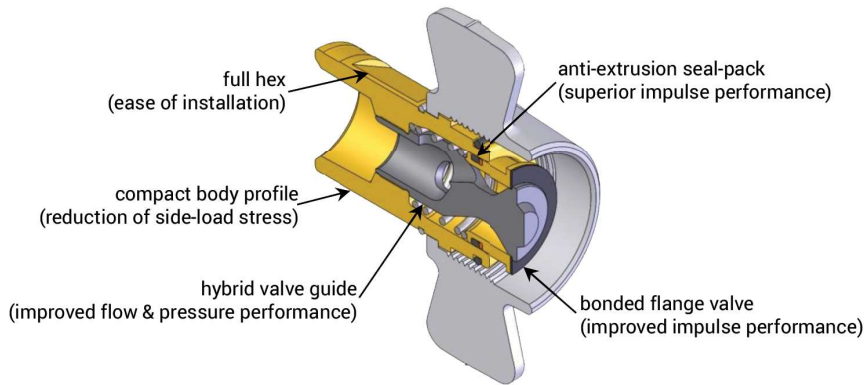
Technical Specifications

Body Size	Interchange Standards				Functional Parameters				
	U.S. Military	U.S. Government	International Standards	ANSI/NFPA Standards	Locking Mechanism	Air Inclusion	Fluid Loss	Vacuum inch HG	Flow ΔP = 32 PSI
1/4"					threaded	0.03cc	0.01cc	27.4	6 GPM
3/8"					threaded	0.05cc	0.06cc	27.4	15 GPM
3/4"	-	-	-	-	threaded	0.34cc	0.26cc	27.4	31 GPM
1"	-	-	-	-	threaded	0.50cc	0.35cc	27.4	52 GPM
1-1/4"	-	-	-	-	threaded	0.68cc	0.70cc	27.4	85 GPM
1-1/2"	-	-	-	-	threaded	0.60cc	0.94cc	27.4	110 GPM

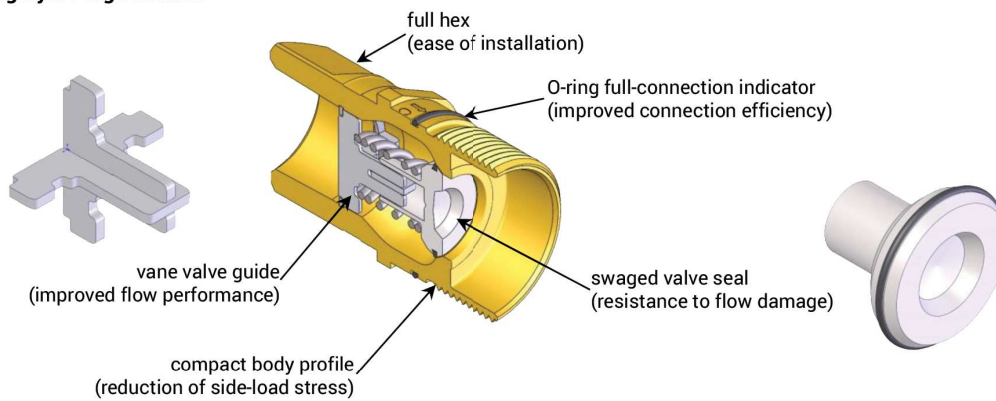
! Although the wingstyle couplings are able to connect and disconnect while under pressure, it is recommended that hydraulic power supply be de-energized during connection to ensure operator safety. If it is not possible to de-energize the circuit, operators must be aware of their surroundings to ensure that an attachment or tool does not put them at risk, once hydraulic power is applied during the connection process.

W-Series couplings are not recommended for continuous hydraulic impulse applications at rated pressures.

Wingstyle Socket Features



Wingstyle Plug Features



Hybrid valve design increases flow and pressure performance.



industry norm tubular valve guide

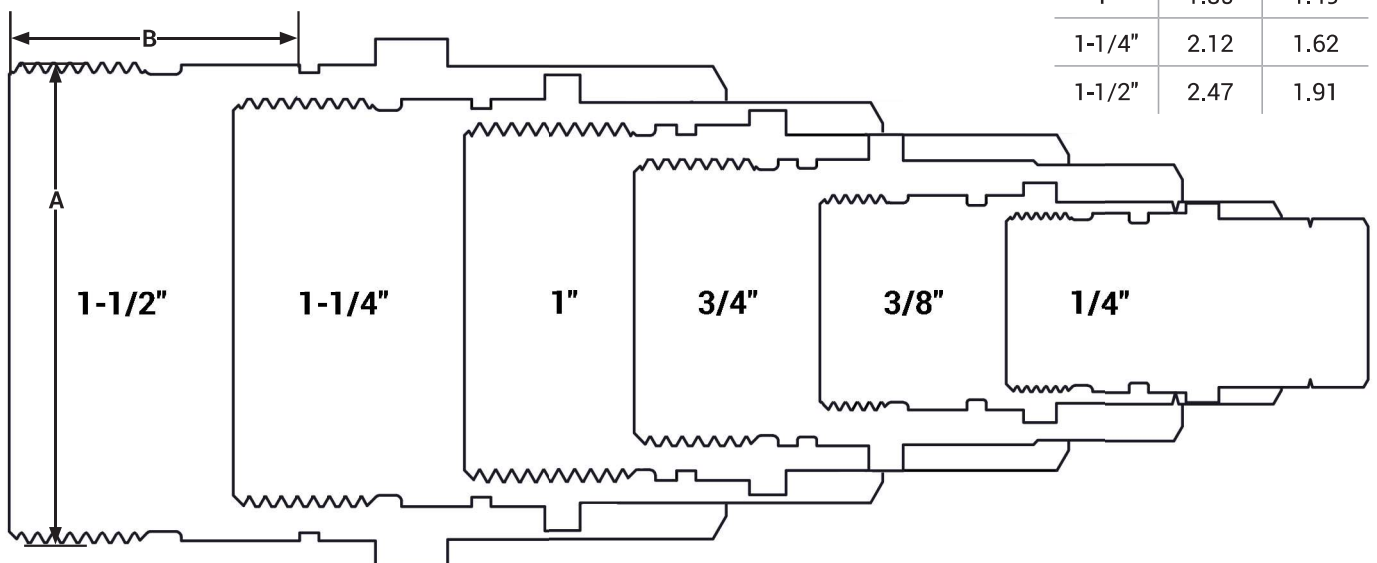
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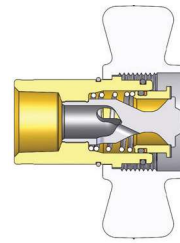
hybrid valve guide

Body Size	A	B
1/4"	0.93	0.94
3/8"	1.12	1.06
3/4"	1.49	0.95
1"	1.85	1.49
1-1/4"	2.12	1.62
1-1/2"	2.47	1.91

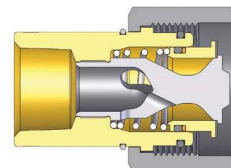
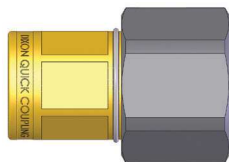
W-Series Profiles



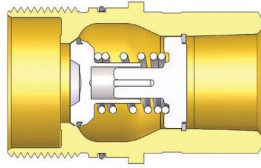
Hydraulic Couplings: W-Series



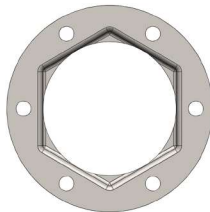
Body Size	W-Series Wingstyle Interchange Coupler (Female Threads)							
	Part Detail			Length		Maximum OD		Flats inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	2WF1-B	1/8" - 27 NPTF	brass	2.00	50.8	3.02	76.7	5/8"
3/8"	3WF2-B	1/4" - 18 NPTF	brass	2.33	59.1	3.46	87.8	13/16"
	3WF3-B	3/8" - 18 NPTF	brass	2.33	59.1	3.46	87.8	13/16"
3/4"	6WF4-B	1/2" - 14 NPTF	brass	2.73	69.3	4.09	103.9	1-5/32"
	6WBF4-B	1/2" - 14 BSPP	brass	2.73	69.3	4.09	103.9	1-5/32"
	6WF6-B	3/4" - 14 NPTF	brass	2.73	69.3	4.09	103.9	1-5/32"
	6WBF6-B	3/4" - 14 BSPP	brass	2.73	69.3	4.09	103.9	1-5/32"
1"	8WF8-B	1" - 11-1/2 NPTF	brass	3.33	84.6	4.49	114.0	1-15/32"
	8WF8	1" - 11-1/2 NPTF	steel	3.33	84.6	4.49	114.0	1-15/32"
	8WBF8-B	1" - 11 BSPP	brass	3.33	84.6	4.49	114.0	1-15/32"
1-1/4"	10WF10-B	1-1/4" - 11-1/2 NPTF	brass	3.64	92.5	5.27	133.9	1-25/32"
	10WBF10-B	1-1/4" - 11 BSPP	brass	3.64	92.5	5.27	133.9	1-25/32"
1-1/2"	12WF12-B	1-1/2" - 11-1/2 NPTF	brass	3.67	93.2	5.35	135.9	2-7/64"
	12WBF12-B	1-1/2" - 11 BSPP	brass	4.08	103.6	5.35	135.9	2-7/64"



Body Size	W-Series Wingstyle Interchange Hex-Nut Coupler (Female Threads)							
	Part Detail			Length		Maximum OD		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	2WF1-B-HN	1/8" - 27 NPTF	brass	2.00	50.8	3.00	76.2	0.63"
3/8"	3WF2-B-HN	1/4" - 18 NPTF	brass	2.33	59.2	3.45	87.6	0.81"
	3WF3-B-HN	3/8" - 18 NPTF	brass	2.33	59.2	3.45	87.6	0.81"
3/4"	6WF4-B-HN	1/2" - 14 NPTF	brass	2.73	69.3	1.92	48.8	1-5/32"
	6WBF4-B-HN	1/2" - 14 BSPP	brass	2.73	69.3	1.92	48.8	1-5/32"
	6WF6-B-HN	3/4" - 14 NPTF	brass	2.73	69.3	1.92	48.8	1-5/32"
	6WBF6-B-HN	3/4" - 14 BSPP	brass	2.73	69.3	1.92	48.8	1-5/32"
1"	8WF8-B-HN	1" - 11-1/2 NPTF	brass	3.33	84.6	2.33	59.2	1-15/32"
	8WF8-HN	1" - 11-1/2 NPTF	steel	3.33	84.6	2.33	59.2	1-15/32"
	8WBF8-B-HN	1" - 11 BSPP	brass	3.33	84.6	2.33	59.2	1-15/32"
1-1/4"	10WF10-B-HN	1-1/4" - 11-1/2 NPTF	brass	3.64	92.5	2.75	69.9	1-25/32"
	10WBF10-B-HN	1-1/4" - 11 BSPP	brass	3.64	92.5	2.75	69.9	1-25/32"
1-1/2"	12WF12-B-HN	1-1/2" - 11-1/2 NPTF	brass	3.67	93.2	3.01	76.5	2-7/64"
	12WBF12-B-HN	1-1/2" - 11 BSPP	brass	3.67	93.2	3.01	76.5	2-7/64"



Body Size	W-Series Wingstyle Interchange Plug (Female Threads)							
	Part Detail			Length		Maximum OD		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	W2F1-B	1/8"-27 NPTF	brass	1.88	47.8	1.04	26.3	15/16"
3/8"	W3F2-B	1/4"-18 NPTF	brass	2.30	58.4	1.25	31.8	1-1/4"
	W3F3-B	3/8"-18 NPTF	brass	2.40	61.0	1.25	31.8	1-1/4"
3/4"	W6F4-B	1/2" - 14 NPTF	brass	2.85	72.4	1.75	44.5	1-5/16"
	W6BF4-B	1/2" - 14 BSPP	brass	2.85	72.4	1.75	44.5	1-5/16"
	W6F6-B	3/4" - 14 NPTF	brass	2.85	72.4	1.75	44.5	1-5/16"
	W6BF6-B	3/4" - 14 BSPP	brass	2.85	72.4	1.75	44.5	1-5/16"
1"	W8F8-B	1" - 11-1/2 NPTF	brass	3.15	80.0	2.00	50.8	1-9/16"
	W8F8	1" - 11-1/2 NPTF	steel	3.15	80.0	2.00	50.8	1-9/16"
	W8BF8-B	1" - 11 BSPP	brass	3.15	80.0	2.00	50.8	1-9/16"
1-1/4"	W10F10-B	1-1/4" - 11-1/2 NPTF	brass	3.39	86.1	2.37	60.2	1-15/16"
	W10BF10-B	1-1/4" - 11 BSPP	brass	3.39	86.1	2.37	60.2	1-15/16"
1-1/2"	W12F12-B	1-1/2" - 11-1/2 NPTF	brass	3.74	95.0	2.73	69.3	2-1/4"
	W12BF12-B	1-1/2" - 11 BSPP	brass	3.74	95.0	2.73	69.3	2-1/4"



Plug not included with flange

Body Size	W-Series Wingstyle Interchange Plug Mounting Flange		
	Part Detail		
	Part #	Bolt Hole Size	Material
3/4"	W6-BMF	0.201"	steel
1"	W8-BMF	0.201"	steel
1-1/4"	W10-BMF	0.201"	steel
1-1/2"	W12-BMF	0.201"	steel

Hydraulic Couplings: W-Series



Body Size	W-Series Wingstyle Interchange Coupler Rigid Dust Plug		
	Part Detail		
	Part #	Lanyard	Body
1/4"	2WDP	steel cable	steel
3/8"	3WDP	steel cable	steel
3/4"	6WDP	steel cable	steel
1"	8WDP	steel cable	steel
1-1/4"	10WDP	steel cable	steel
1-1/2"	12WDP	steel cable	steel



Body Size	W-Series Wingstyle Interchange Plug Rigid Dust Cap		
	Part Detail		
	Part #	Lanyard	Body
1/4"	W2DC	steel cable	steel
3/8"	W3DC	steel cable	steel
3/4"	W6DC	steel cable	steel
1"	W8DC	steel cable	steel
1-1/4"	W10DC	steel cable	steel
1-1/2"	W12DC	steel cable	steel

Body Size	W-Series Wingstyle Interchange Coupler Repair Kits			
	Part Detail			Repair Kit Contents (for one coupler)
	Part #	Coupler Style	Seal Material	
3/4"	6W-RKIT-V2	all	nitrile	bonded valve, O-rings, and Hytrel® backup
1"	8W-RKIT-V2	all	nitrile	bonded valve, O-rings, and Hytrel® backup
1-1/4"	10W-RKIT-V2	all	nitrile	bonded valve, O-rings, and Hytrel® backup
1-1/2"	12W-RKIT-V2	all	nitrile	bonded valve, O-rings, and Hytrel® backup

Body Size	W-Series Wingstyle Interchange Plug Repair Kits			
	Part Detail			Repair Kit Contents (for one coupler)
	Part #	Coupler Style	Seal Material	
3/4"	W6-RKIT-V2	all	nitrile	valve assembly and O-ring
1"	W8-RKIT-V2	all	nitrile	valve assembly and O-ring
1-1/4"	W10-RKIT-V2	all	nitrile	valve assembly and O-ring
1-1/2"	W12-RKIT-V2	all	nitrile	valve assembly and O-ring