



## VLS SERIES

The **VLS Series Heavy-Duty Screw Coupler** is a durable product using heavy duty poppet style valves for the sealing mechanism and threads as the mechanical connection. The VLS series couplings feature a particularly rugged design, making them particularly well suited for heavy-duty service conditions, including construction equipment used in extreme off-highway conditions.

Category: [Threaded Poppet Couplers](#) Tag: [Industry: Mobile](#)

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- [Description](#)
  - [Quick Specs](#)

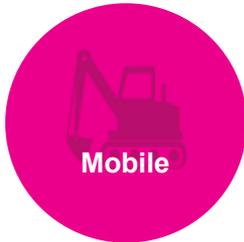
## DESCRIPTION

### FEATURES

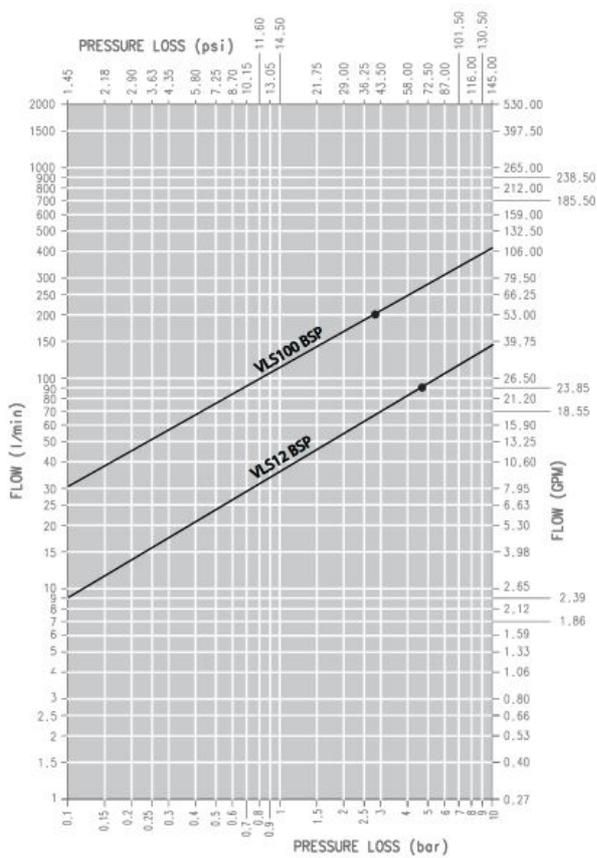
- Size range: 1/2" thru 1"
- Port options: BSP, DIN
- Screw-on system interchangeable with German market couplings
- Internal components designed to reduce turbulence and handle impulse applications
- Zinc plated steel coupling body with zinc plated hardened steel nipple
- Nitrile seals and Teflon anti-extrusion rings
- Available in two sizes: 1/2 and 1 inch

## APPLICATIONS

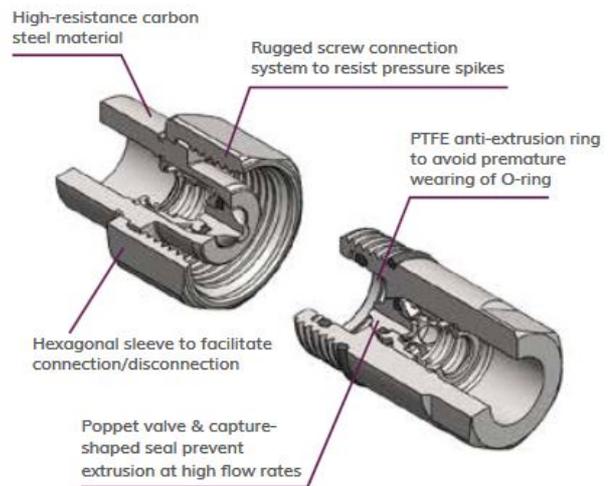
- Particularly well suited for heavy-duty service conditions
- Off-highway applications, especially in construction equipment under extreme conditions
- Wherever turbulence must be reduced and impulses must be managed



## Pressure Drop



OIL = ISO VG32, TEMP = 40C, VISCOSITY = 28.8-35.2 MM<sup>2</sup>/S



## Performance

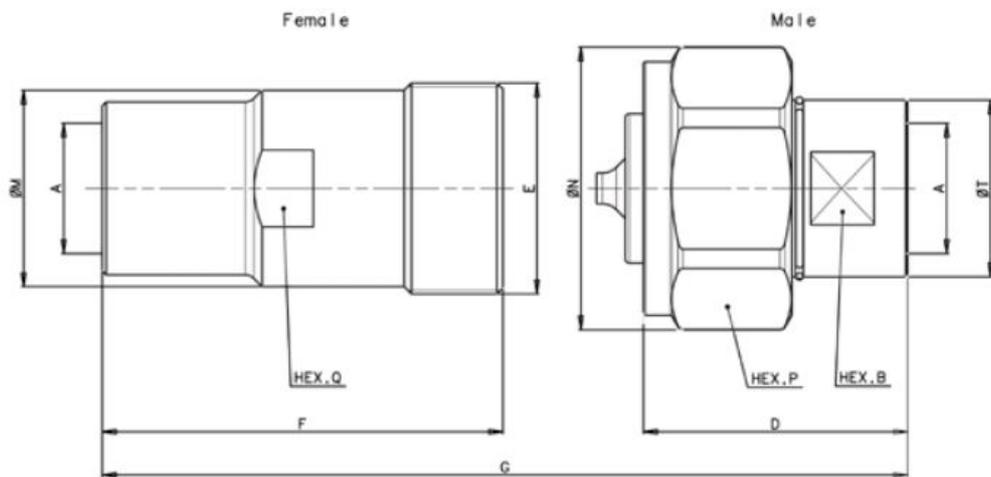

VLS12	46.5	6743	46.5	6743	46.5	6743	200	29000	130	1880
VLS100	46.5	6743	46.5	6743	46.5	6743	140	20300	140	2030

VLS12	1/2	45	11.93	90	23.85	3.2	2.36
VLS100	1	100	26.50	200	53.00	1.3	0.96

\* Connect torque and disconnect torque without residual pressure. Torque will increase with residual pressure.

\*\* Spillage is an indicative value of the fluid loss per couple-uncouple cycle without residual pressure.

### Size Diagram



VLS 12 BSP	1/2	12,5	G 1/2'	35X2 SP	mm	27	50,3	62	92.6
					inch	1.06	1.98	2.44	3.65
VLS 100 BSP	1	25	G 1'	54X3 SP	mm	41	66.9	101.5	143

					inch	1.61	2.63	4.00	5.63
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WEIGHT			
DESCRIPTION	UNIT	MALE	FEMALE
VLS 12 BSP	kg	0.245	0.315
	lbs	0.111	0.143
VLS 100 BSP	kg	0.92	0.88
	lbs	0.417	0.399

VLS 12 M22X1.5 ISO	1/2	12.5	M22X1.5	35X2 SP	mm	27	50.3	62	9
					inch	1.06	1.98	2.44	3
VLS 100 M30X1.5 ISO	1	25	M30X1.5	54X3 SP	mm	41	66.9	101.5	12
					inch	1.61	2.63	4.00	5

WEIGHT			
DESCRIPTION	UNIT	MALE	FEMALE
VLS 12 M22X1.5 ISO	kg	0.24	0.305
	lbs	0.109	0.138
VLS 100 M30X1.5 ISO	kg	0.94	0.9
	lbs	0.426	0.408

**VLS BSP and DIN Thread**


COUPLER	1/2	BSP	1/2	FEMALE	1/2-1
NIPPLE	1/2	BSP	1/2	FEMALE	1/2-1
COUPLER	1	BSP	1	FEMALE	1-1
NIPPLE	1	BSP	1	FEMALE	1-1
COUPLER	1/2	DIN	M 22X1.5	FEMALE	–
NIPPLE	1/2	DIN	M 22X1.5	FEMALE	–
COUPLER	1	DIN	M 30X1.5	FEMALE	–
NIPPLE	1	DIN	M 30X1.5	FEMALE	–

### VLS Series Accessories Aluminum Screw Caps

VLS12	814906022	814906023
VLS100	814906024	814906025

### ADDITIONAL INFORMATION

<b>Body Size</b>	<u>1/2"</u> , <u>1"</u>
<b>Material</b>	<u>Carbon</u>
<b>Port Options</b>	<u>BSP</u> , <u>DIN</u>
<b>Port Size</b>	<u>1/2"</u> , <u>1"</u>

<b>Valve Style</b>	<u>Poppet</u>
<b>Working Pressure</b>	<u>Up to 5000</u>

## Related products

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### **VEPHDL SERIES**

The **VEPHDL Series Heavy-Duty Locking Flat Face Coupler** is the ultimate failsafe solution for the most demanding hydraulic applications. This locking female version is interchangeable with standard VEPHD series flat face thread-to-connect heavy duty couplers and features a visual connection indicator for foolproof connection, every time.

[Read more](#)

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## **FIRG SERIES**

**The FIRG Flat Face Series**, the original ISO 16028 interchangeable coupling, continues to offer good performance, long life and competitive pricing. The integrated sealing mechanism greatly reduces premature wear caused by movement between coupler and nipple parts affected by impulse pressure and the weight of the hoses and tubing when the coupling is in horizontal position.

[Read more](#)

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## **VEP SERIES**

**The VEP Series** is a popular solution for hydraulic circuit applications subject to high pressure impulses and circuits which experience high residual or trapped pressure in a line. Thread-to-connect design eliminates premature wear or brinelling, a patented internal valve allows connection/disconnection with high residual pressures, and the flat face design avoids loss of hydraulic fluid and contamination into the circuit. A yellow o-ring indicator makes the VEP series even easier to work with.

[Read more](#)

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## **Dust Caps & Repair Kits**

Protective caps and plugs are useful accessories that prevent damaging dust, water or mud from entering the quick couplings, thus lengthening their working lives. Repair kits are available upon request.

[Read more](#)