



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 rugged design, making them particularly well-suited for heavy-duty service conditions, including construction equipment used in extreme off-highway conditions.



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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
- Inspection hole to visually confirm complete connection

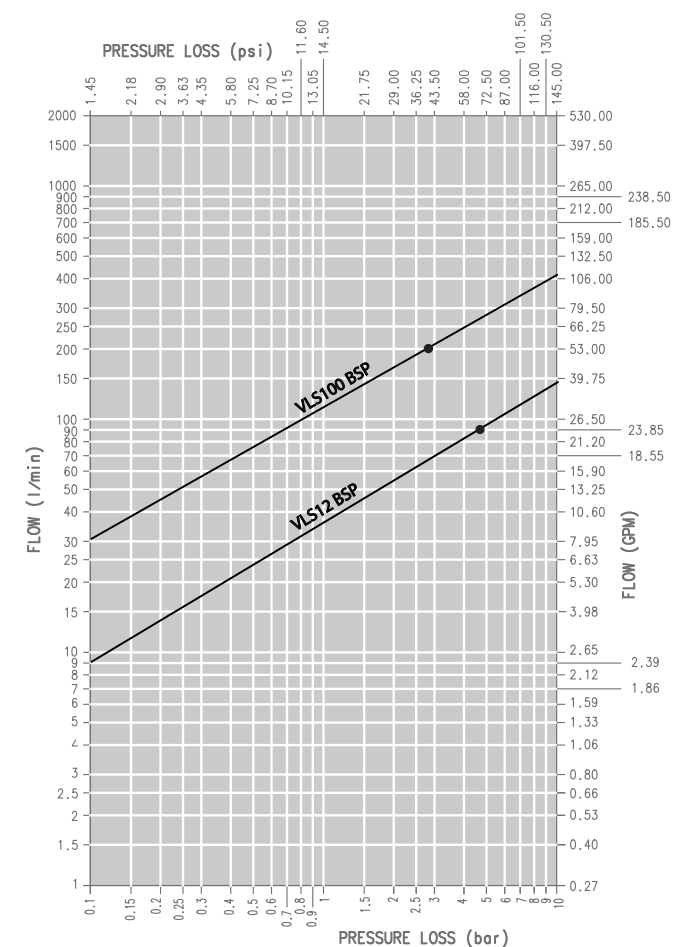
APPLICATIONS

Particularly well-suited for heavy-duty service conditions

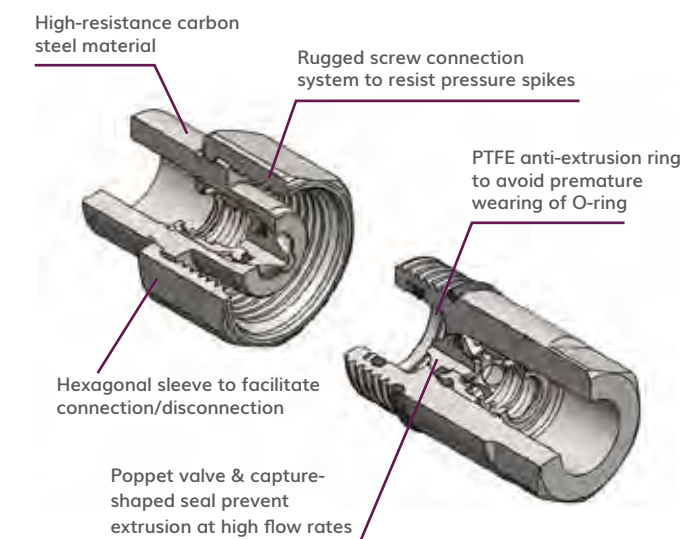
- Off-highway applications, especially in construction equipment under extreme conditions
- Wherever turbulence must be reduced and impulses must be managed



PRESSURE DROP



OIL = ISO VG32, TEMP = 40C, VISCOSITY = 28.8-35.2 MM²/S



PERFORMANCE

DESCRIPTION	MAX. OPERATING PRESSURE						BURST PRESSURE					
	COUPLED		MALE		FEMALE		COUPLED		MALE		FEMALE	
	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
VLS12	46.5	6743	46.5	6743	46.5	6743	200	29000	130	18850	170	24650
VLS100	46.5	6743	46.5	6743	46.5	6743	140	20300	140	20300	140	20300

DESCRIPTION	SIZE	RATED FLOW		MAX. FLOW SUGGESTED		CONNECT TORQUE*		DISCONNECT TORQUE*		SPILLAGE**
		L/min	GPM	L/min	GPM	NM	LBF FT	NM	LBF FT	
VLS12	1/2	45	11.93	90	23.85	3.2	2.36	3.2	2.36	2.5
VLS100	1	100	26.50	200	53.00	1.3	0.96	0.6	0.44	15

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

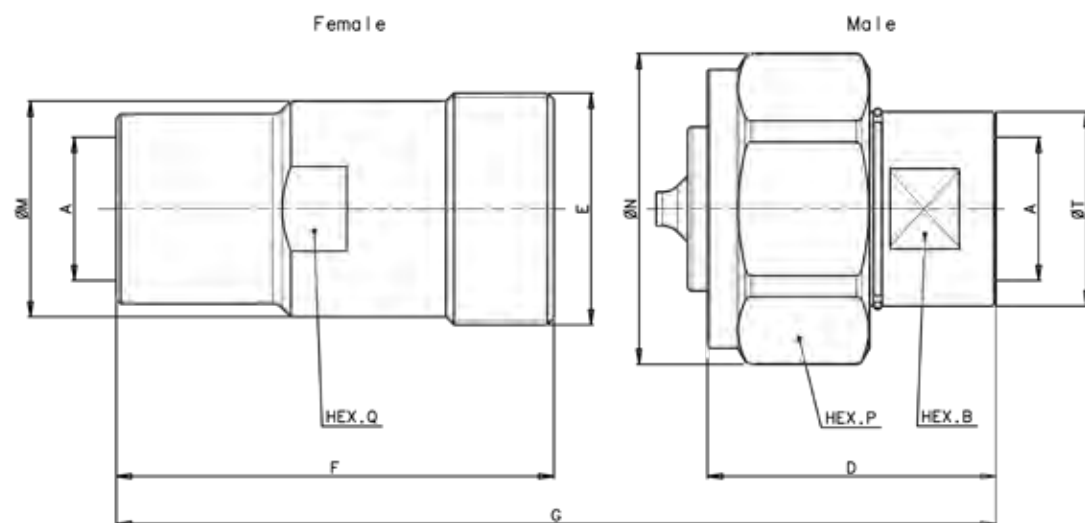
** Spillage is an indicative value of the fluid loss per couple-uncouple cycle without residual pressure.

VLS SERIES

THREADED POPPET COUPLERS Heavy Duty Screw Coupler



SIZE DIAGRAM



DESCRIPTION	BODY SIZE	ISO	A	E	UNIT	HEX B	D	F	G	M	N	HEX P	HEX Q	T
VLS 12 BSP	1/2	12,5	G 1/2'	35X2 SP	mm	27	50,3	62	92.6	35.5	45	41	32	29.8
					inch	1.06	1.98	2.44	3.65	1.40	1.77	1.61	1.26	1.17
VLS 100 BSP	1	25	G 1'	54X3 SP	mm	41	66.9	101.5	143	50	72	65	46	54
					inch	1.61	2.63	4.00	5.63	1.97	2.83	2.56	1.81	2.13

DESCRIPTION	UNIT	WEIGHT	
		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

DESCRIPTION	BODY SIZE	ISO	A	E	UNIT	HEX B	D	F	G	M	N	HEX P	HEX Q	T
VLS 12 M22X1.5 ISO	1/2	12.5	M22X1.5	35X2 SP	mm	27	50.3	62	92.6	35.5	45	41	32	29.8
					inch	1.06	1.98	2.44	3.65	1.40	1.77	1.61	1.26	1.17
VLS 100 M30X1.5 ISO	1	25	M30X1.5	54X3 SP	mm	41	66.9	101.5	143	50	72	65	46	54
					inch	1.61	2.63	4.00	5.63	1.97	2.83	2.56	1.81	2.13

DESCRIPTION	UNIT	WEIGHT	
		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

PART	BODY SIZE	THREAD TYPE	THREAD SIZE	PORT SERIES	PORT THREAD	ORDER CODE	DESCRIPTION
VLS BSP THREAD							
COUPLER	1/2	BSP	1/2	FEMALE	1/2-14	809900004	F. VLS 12 BSP
NIPPLE	1/2	BSP	1/2	FEMALE	1/2-14	809900005	M. VLS 12 BSP
COUPLER	1	BSP	1	FEMALE	1-11	809900008	F. VLS 100 BSP
NIPPLE	1	BSP	1	FEMALE	1-11	809900009	M. VLS 100 BSP
VLS DIN THREAD							
COUPLER	1/2	DIN	M 22X1.5	FEMALE	-	809912004	F. VLS M22X1.5 ISO
NIPPLE	1/2	DIN	M 22X1.5	FEMALE	-	809912005	M. VLS M22X1.5 ISO
COUPLER	1	DIN	M 30X1.5	FEMALE	-	809912008	F. VLS 100 M30X1.5 ISO
NIPPLE	1	DIN	M 30X1.5	FEMALE	-	809912009	M. VLS 100 M30X1.5 ISO

VLS Series Accessories Aluminum Screw Caps

DESCRIPTION	ORDER CODE	
	PLUG FOR FEMALE	CAP FOR MALE
VLS12	814906022	814906023
VLS100	814906024	814906025

THREADED POPPET COUPLERS