

VP SERIES SCREWED COUPLINGS WITH LOCKING SLEEVES

INTRODUCTION

Holmbury VP Series Screwed Couplings are ideal for systems subjected to high pressure pulses since they are immune to Brinelling. They provide the extra security of a screw connection with locking sleeve.

ADVANTAGES

- ★ Connect and disconnect under pressure
- ★ Screw thread connection eliminates Brinelling
- ★ Flat faces easily wiped clean to prevent ingress of contaminants
- ★ Non-spill design avoids fluid loss during connection and disconnection
- ★ Locking sleeve indicates that connection is complete and prevents accidental disconnection
- ★ Bi-directional flow with low pressure drop

SPECIFICATION

Operating temperature range: -20°C to +100°C
 Fluid loss during disconnection: zero to 0.02ml
 Materials: QPQ hardened carbon steel body, other external parts zinc plated. PTFE and nitrile seals.

APPLICATIONS

Hand held and excavator mounted breakers, shears and all systems subject to high pressure pulses. Any system where connection or disconnection under pressure is required.

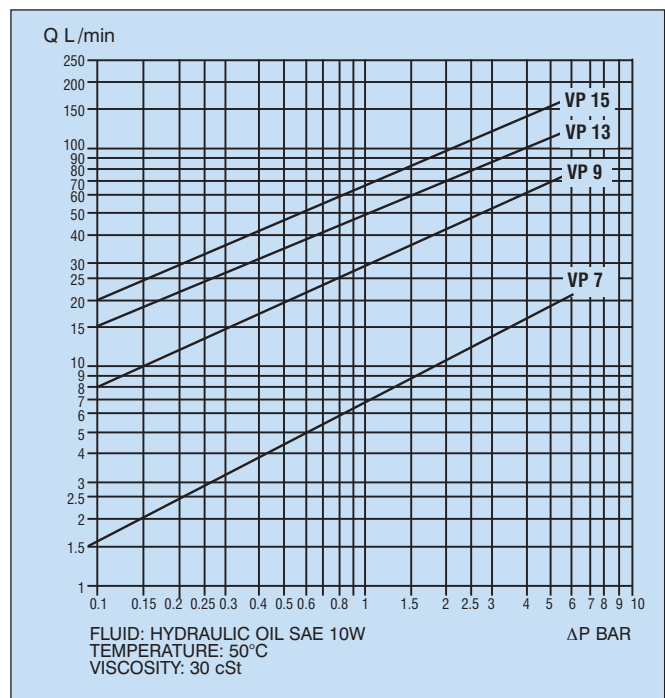
CONNECTION UNDER PRESSURE

Coupling type with residual pressure	Residual pressure in bar						
	0	50	100	150	200	250	300
VP 7 & 9 F	[Green bar]						
VP 7 & 9 M	[Green bar]						
VP 7 & 9 M&F	[Green bar]			175	[Yellow bar]		[Blue bar]
VP 13 F	[Green bar]					275	[Yellow bar]
VP 13 M	[Green bar]		150	[Yellow bar]			
VP 13 M&F	[Green bar]	75	[Blue bar]				
VP 15 F	[Green bar]					275	[Yellow bar]
VP 15 M	[Green bar]		175	[Yellow bar]		275	[Blue bar]
VP 15 M&F	[Green bar]	75	[Blue bar]		[Yellow bar]		

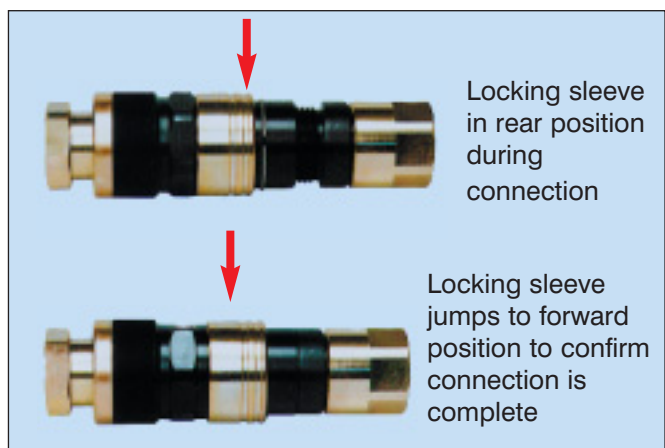
■ Easy connection by hand, torque required <10Nm
■ Spanner recommended, torque required >10<20Nm
■ Spanner needed, torque required >20Nm
■ Connection under pressure is not recommended



PRESSURE DROP CHARACTERISTICS



LOCKING SLEEVE MOTION

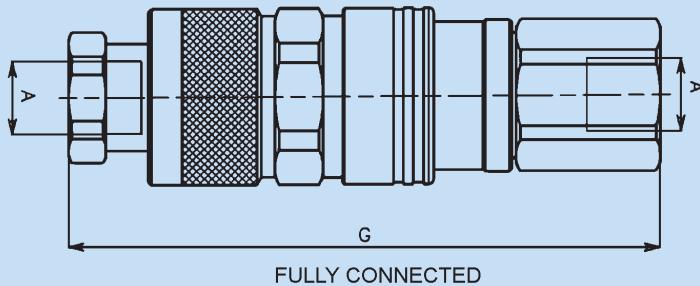
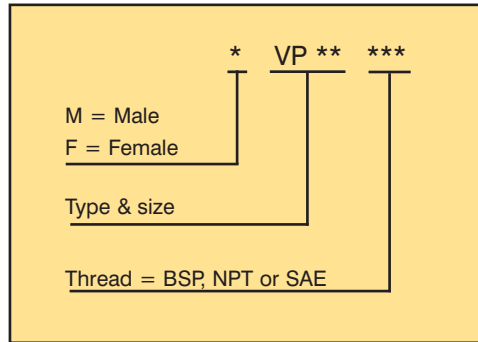


VP SERIES, SCREWED COUPLINGS

PRESSURE RATINGS (bar)

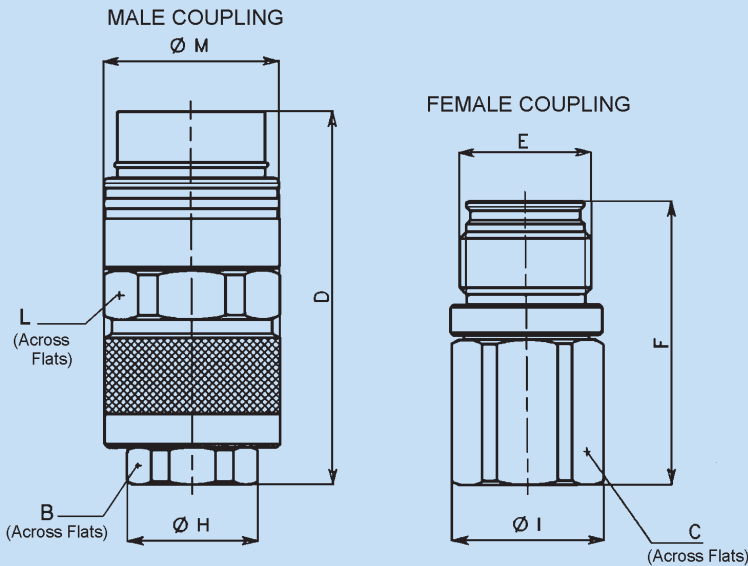
Size	VP 7	VP 9	VP 13	VP 15
Classification				
Maximum working pressure coupled	600	550	550	525
Burst pressure coupled	1500	1350	1350	1350
Burst pressure Male	1800	1500	1700	1600
Burst pressure Female	1250	1250	1100	1000

ORDER CODES



Connection

- 1) Bring the flat mating faces together, then simultaneously push and twist the male. The outer sleeve of the male will engage the external thread of the female.
- 2) Continue screwing the coupling together until the grooved locking sleeve snaps to the forward position.



Disconnection

- 1) Ensure residual pressure does not exceed 300 bar.
- 2) Pull and hold back the grooved locking sleeve. If the sleeve will not move, tighten the two halves until the sleeve slides freely.
- 3) Unscrew the coupling with the sleeve pulled back.

For larger sizes see the VEP Series on page 12

TYPE	ND	A	B	C	D	E	F	G	H	I	L	M	Weight kg
VP 7 1/4	7	1/4"	22	27	84	M24 x 2	53	125.5	24	29	32	35	0.61
VP 9 3/8	9	3/8"	27	30	94.5	M28 x 2	64.5	142.5	29	32	38	42	0.84
VP 9 1/2	9	1/2"	27	30	94.5	M28 x 2	69.5	147.5	29	32	38	42	0.81
VP 13 1/2	13	1/2"	36	36	110	M36 x 3	76.5	168	38.5	40	45	49	1.29
VP 13 3/4	13	3/4"	36	36	110	M36 x 3	83.5	175	38.5	40	45	49	1.29
VP 15 3/4	16	3/4"	36	41	110	M39 x 3	83.5	175	38.5	45	48	52	1.68