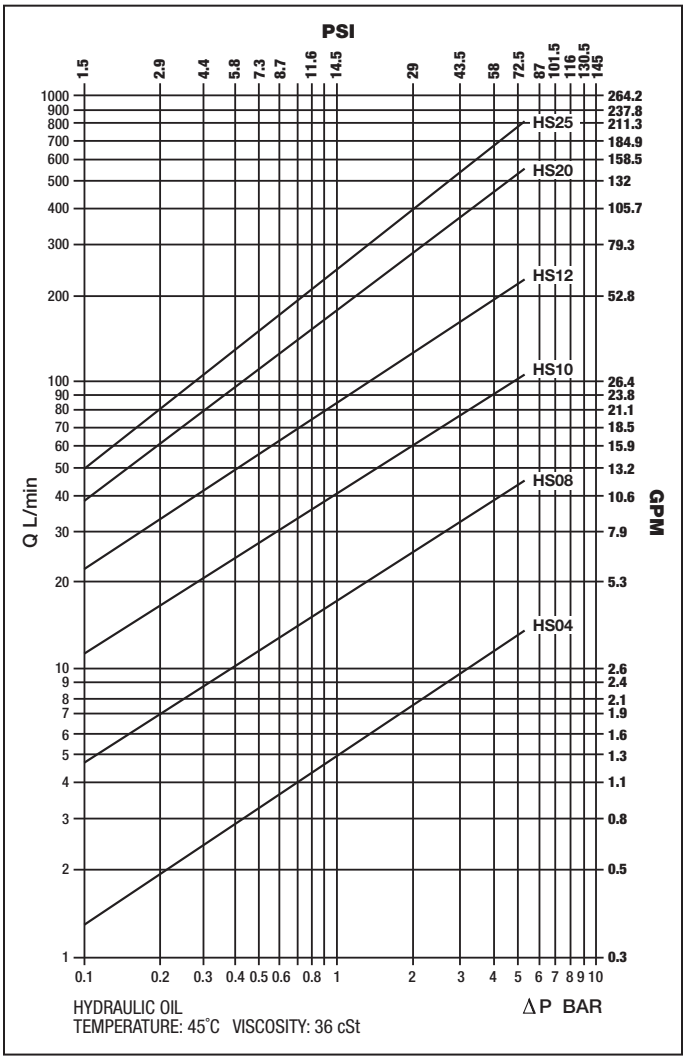
Holmbury

# HS SERIES

## SCREW TO CONNECT POPPET COUPLINGS



### Pressure Drop Characteristics




### Order Codes*

| HS | 08 | - | 1 | - | IN | F | 06 |
|---|---|---|---|---|---|---|---|

**Voswinkel Coupling Series**
= HS Series

**Body Size**
04 = 1/4" 12 = 3/4"
08 = 3/8" 20 = 1"
10 = 1/2" 25 = 1-1/4"

**Gender**
1 = Female 2 = Male

**Thread Size**
04 = 1/4" 16 = 1"
06 = 3/8" 20 = 1-1/4"
08 = 1/2" 24 = 1-1/2"
12 = 3/4"

**Thread Gender**
F = Female
Blank = Male

**Thread Type**
IN = NPTF IG = BSPP

*Similar but not identical to Holmbury part code system

Note: Not all thread types and sizes are available as stock items. Minimum order quantity may be required. Consult factory for details.

Metric and SAE - Consult factory.

Metric thread sizes may be available from stock. Reference RK Coupling Dimensional Charts on page 33.

### INTRODUCTION

The Voswinkel HS Series is a rugged screw together design that can be coupled under pressure and is well suited for heavy duty service conditions in construction machinery. When properly connected, the poppets are held rigidly in the open position making it ideal for applications that have severe hydraulic pulsations and pressure spikes.

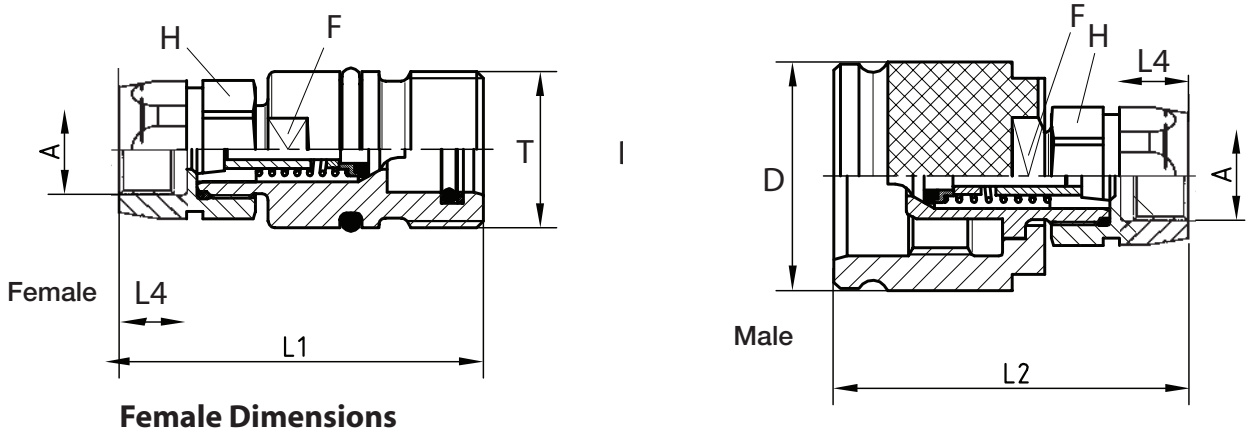
### FEATURES

- Screw connection mechanism avoids use of locking balls and so eliminates the risk of Brinelling (the problem of locking ball indentation in the nose of the probe).
- Can be connected by hand with up to 50 bar (725 PSI) pressure in each hydraulic hose line.
- Self locking connection mechanism prevents accidental disconnection caused by vibration.
- Modular construction allows numerous thread and connection options as standard.

### MATERIALS

Hardened carbon steel body, zinc plated, nitrile seals. Stainless steel also available.

# HS SERIES, SCREW TO CONNECT POPPET COUPLINGS




## Female Dimensions

| Type & Size | Max. Oper. Pressure | A Port Size | T | F Flat | H Hex | L4 Thd. Length | L1 OAL | Weight |
|---|---|---|---|---|---|---|---|---|
| | Bar | NPTF Thread | | Dimensions in millimeters | | | | kg |
| | PSI | | | Dimensions in inches | | | | lb |
| HS04 | 450 | 1/4” | M24X2 | 22 | 19 | 13 | 59 | .120 |
| | 6527 | | | 0.87 | 0.75 | 0.51 | 2.32 | .265 |
| HS08 | 450 | 3/8” | M28X2 | 24 | 22 | 13 | 64 | .160 |
| | 6527 | | | 0.94 | 0.87 | 0.51 | 2.52 | .353 |
| HS10 | 400 | 1/2” | M36X2 | 30 | 30 | 15 | 68 | .285 |
| | 5800 | | | 1.18 | 1.18 | 0.59 | 2.68 | .628 |
| HS12 | 400 | 3/4” | M42X2 | 36 | 36 | 19 | 85 | .526 |
| | 5800 | | | 1.42 | 1.42 | 0.75 | 3.35 | 1.16 |
| HS20 | 300 | 1” | M48X2 | 41 | 41 | 19 | 99 | .706 |
| | 4350 | | | 1.61 | 1.61 | 0.75 | 3.90 | 1.557 |
| HS25 | 300 | 1-1/4” | M70X3 | 85 | 80 | 55 | 29 | 1.630 |
| | 4350 | | | 3.35 | 3.15 | 2.17 | 1.14 | 3.593 |
| HS25 | 300 | 1-1/2” | M70X3 | 85 | 80 | 55 | 31 | 1.715 |
| | 4350 | | | 3.35 | 3.15 | 2.17 | 1.22 | 3.781 |

**See Page 50 for Dust Cap Information.**

Inches=mm/25.4 lbs=kg x 2.204622

## Male Dimensions

| Type & Size | Max. Oper. Pressure | A Port Size | D | F Flat | H Hex | L4 Thd. Length | L2 OAL | Weight |
|---|---|---|---|---|---|---|---|---|
| | Bar | NPTF Thread | Dimensions in millimeters | | | | | kg |
| | PSI | | Dimensions in inches | | | | | lb |
| HS04 | 450 | 1/4” | 35 | 30 | 19 | 13 | 58 | .182 |
| | 6527 | | 1.38 | 1.18 | 0.75 | 0.51 | 2.28 | .401 |
| HS08 | 450 | 3/8” | 34 | 30 | 22 | 13 | 61 | .170 |
| | 6527 | | 1.34 | 1.18 | 0.87 | 0.51 | 2.40 | .375 |
| HS10 | 400 | 1/2” | 42 | 36 | 30 | 15 | 66 | .270 |
| | 5800 | | 1.65 | 1.42 | 1.18 | 0.59 | 2.60 | .595 |
| HS12 | 400 | 3/4” | 48 | 41 | 36 | 19 | 76 | .490 |
| | 5800 | | 1.89 | 1.61 | 1.42 | 0.75 | 2.99 | 1.080 |
| HS20 | 300 | 1” | 55 | 50 | 4 | 19 | 82 | .580 |
| | 4350 | | 2.17 | 1.97 | 0.16 | 0.75 | 3.23 | 1.279 |
| HS25 | 300 | 1-1/4” | 85 | 80 | 55 | 29 | 131 | 2.329 |
| | 4350 | | 3.35 | 3.15 | 2.17 | 1.14 | 5.16 | 5.135 |
| HS25 | 300 | 1-1/2” | 85 | 80 | 55 | 31 | 133 | 2.260 |
| | 4350 | | 3.35 | 3.15 | 2.17 | 1.22 | 5.24 | 4.983 |

Also available in Metric Male Tube (DIN 3861) and Code 62 Flange Connectors.