

# FLAT FACE COUPLINGS

## HQ SERIES 1/4" – 1 1/4"

FULLY COMPLIANT WITH  
ISO 16028:1999/AMD.1:2006(E)

## H Series 1 1/2" – 2"

H Series sizes are not covered by the  
International Standard

### APPLICATIONS

HQ Series couplings are designed for use in excavator hammer circuits and other applications involving high pressure pulses. Construction plant, mobile equipment, general industrial, nuclear, mining and agricultural.

H Series couplings are suitable for similar applications to those listed above provided the duty cycle is less demanding and the environment less aggressive.

Both HQ and H Series couplings are suitable for applications involving dusty or dirty environments and where oil loss on disconnection cannot be tolerated.

### ADVANTAGES

- ★ Flat mating faces are easily wiped clean to prevent the ingress of contaminants.
- ★ Improved flow path minimises the pressure drop.
- ★ Non-spill design avoids fluid loss during connection and disconnection.
- ★ No air intrusion during connection.
- ★ Locking sleeve prevents accidental disconnection.
- ★ Zinc nickel surface treatment eliminates chrome 6 and exceeds 200 hour salt spray tests to white rust.

### STANDARDS

HQ Series conform to ISO 16028 (2006) in all respects, i.e. dimensions and performance.

### MATERIALS

Carbon steel body, treated to increase hardness and corrosion resistance, nitrile seals. H Series couplings are Trivalent plated.

### CONNECTION / DISCONNECTION UNDER PRESSURE

Connection with residual pressure in the line will be difficult or impossible. For applications where connection under pressure is required, Holmbury HCP male couplings, or screw couplings from either the HSC, HS or RS ranges are recommended.

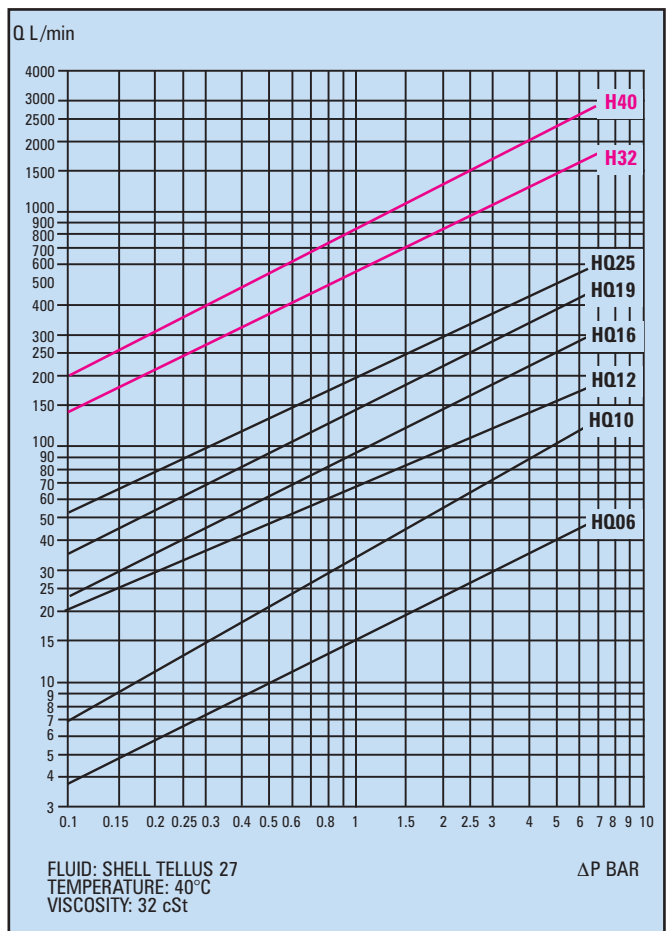
Disconnection of any quick disconnect / quick release coupling whilst under full system pressure can be very dangerous and should not be attempted.

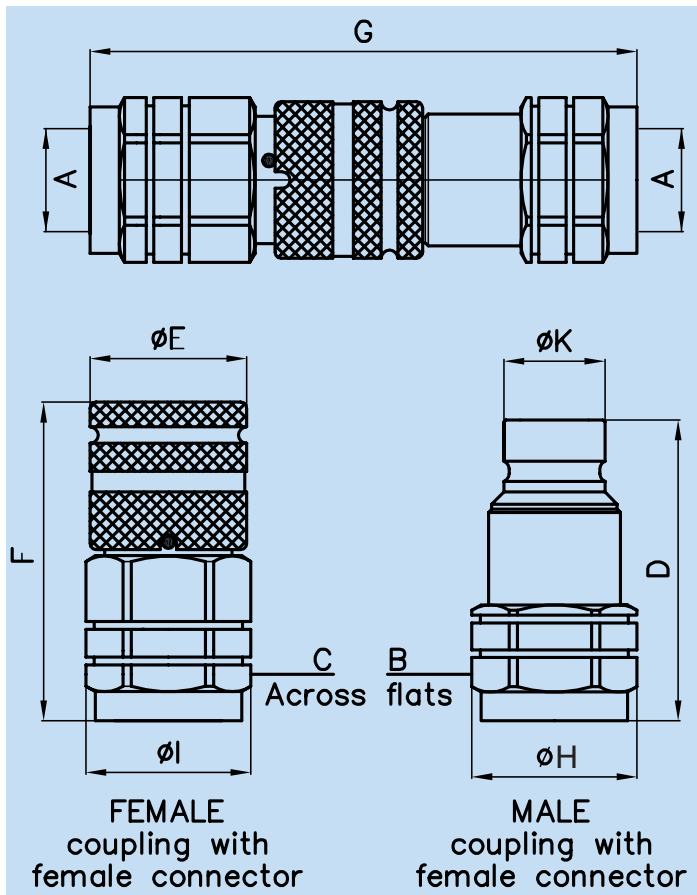
### OPERATING TEMPERATURES

See table on page 9.



### PRESSURE DROP CHARACTERISTICS





### DIMENSIONS (mm except where stated)

Size	Nominal Diameter	A*	B	C	D	ØE	F	G*	ØH	ØI	ØK	Weight (kg)
HQ06	6	1/4"	22	27	48	28	54	90.5	24	29	16.2	0.29
HQ10	10	3/8"	27	30	60	32	69	113.5	29	32	19.8	0.42
HQ10	10	1/2"	27	30	63	32	75	121.5	29	32	19.8	0.43
HQ12	12	1/2"	36	36	71	38	83.5	138	40	40	24.5	0.8
HQ12	12	3/4"	36	36	71	38	83.5	138	40	40	24.5	0.73
HQ16	16	3/4"	36	41	73	42	84	140	38.5	45	26.95	0.96
HQ19	19	3/4"	46	46	84	47	98.5	161	50	50	30	1.4
HQ19	19	1"	46	46	84	47	98.5	161	50	50	30	1.35
HQ25	25	1 1/4"	55	55	90	55	106	174	60	60	36.1	2.03
H32	32	1 1/2"	70	70	120	79	119	210	70	72	57	4.6
H40	40	2"	70	70	114	79	118	210				

\* Dimensions for BSP and NPT threads. Other threads available, see Order Codes opposite

### SEAL OPERATING TEMPERATURES

Seal material code	Seal material	Maximum temperature	Minimum Temperature
None*	Nitrile	100°C	-20°C
V	Viton	180°C	-15°C

\* No seal code required for Nitrile because it is standard.

**DUST CAPS  
SEE PAGE 76**



### PRESSURE RATING (bar)

Size Pressure	HQ06	HQ10	HQ12	HQ16	HQ19	HQ25	H32	H40
Maximum working pressure coupled	400	375	350	350	350	315	250	250
Burst pressure coupled	2000	1500	1500	1500	1450	1000	1000	1000
Burst pressure male	1850	1200	1200	1200	1200	1000	1000	1000
Burst pressure female	1220	1200	1050	1050	1050	1000	1000	1000

### ORDER CODES

**HQ 19 - M -12 G**

**HQ** = HQ Series  
**H** = H Series

**Coupling Size:** 06, 10, 12, 16, 19, 25, 32, 40

**M** = Male coupling  
**F** = Female coupling

**Thread size based on dash system**  
(Coupling body size shown in red for information only)

**Thread size**      **Body size**

04 = 1/4"      (06)  
06 = 3/8"      (10)  
08 = 1/2"      (10 or 12)  
12 = 3/4"      (12, 16 or 19)  
16 = 1"      (19)  
20 = 1 1/4"      (25)  
24 = 1 1/2"      (32)  
32 = 2"      (40)

**Thread form**

G = BSP P      R = BSP T  
N = NPT F      S = SAE  
J = JIC      M = Metric  
FS = ORFS  
ML = Low pressure DIN 2353  
MS = High pressure DIN 2353

**M** = Male thread  
**Blank** = Female thread (no code required)

**Blank** = Nitrile Seals (no code required)

**Any other necessary information**

#### Example: HQ19-M-12G

HQ19 male, 3/4" BSP P female thread, nitrile seals, no special requirements.