

# FLAT FACE COUPLINGS

## HQ SERIES

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

### APPLICATIONS

Excavator hammer circuits and other applications involving high pressure pulses. Construction plant, mobile equipment, general industrial, nuclear, mining and agricultural. 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.

### STANDARDS

Conforms 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.

### CARE AND OPERATION

Please refer to 'Care and Operation of Flat Face Couplings', which can be found on page 53.

### CONNECTION / DISCONNECTION UNDER PRESSURE

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

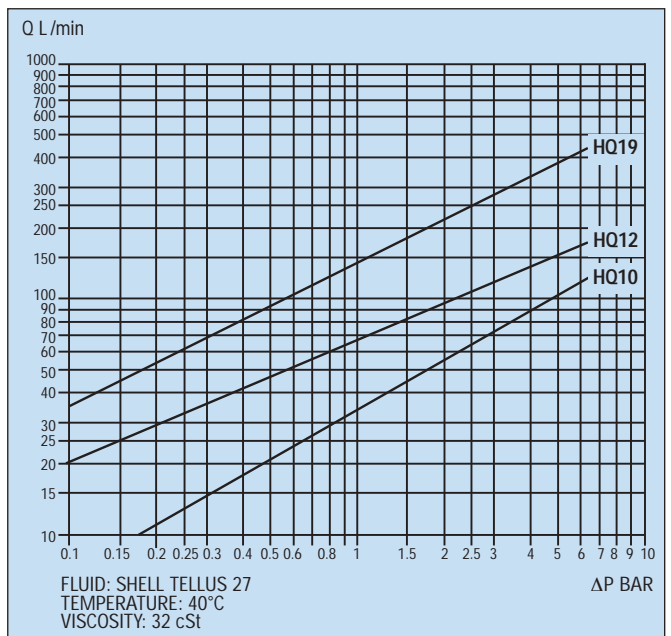
Disconnection of any quick disconnect / quick release coupling whilst under full system pressure can be very dangerous and should not be attempted.

### OPERATING TEMPERATURES

See table on page 7.

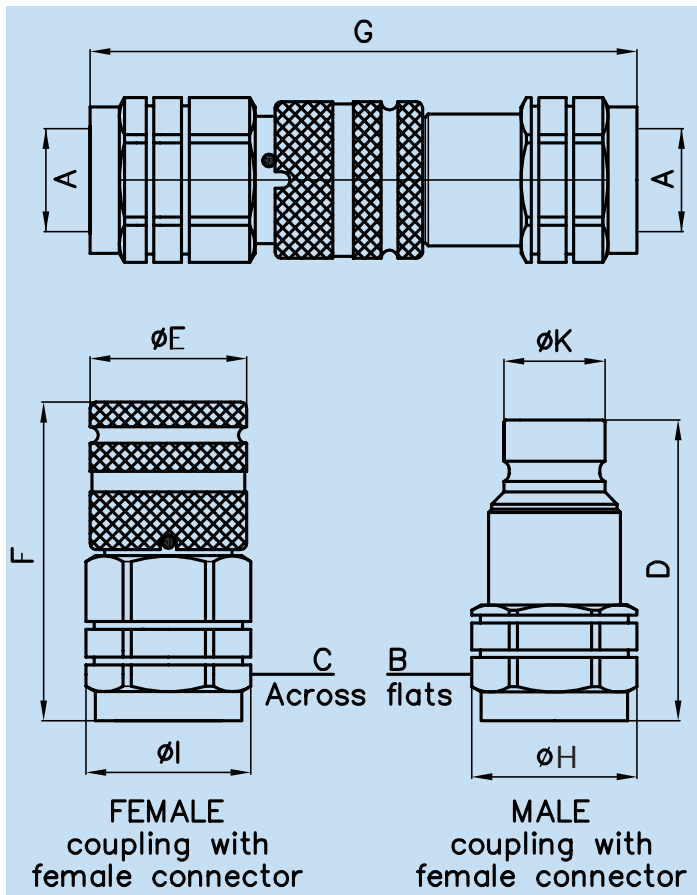


### PRESSURE DROP CHARACTERISTICS



### DUST CAPS - SEE PAGE 74





### DIMENSIONS (mm except where stated)

Size	Nominal Diameter	A*	B	C	D	ØE	F	G*	ØH	ØI	ØK	Weight (kg)
HQ10	10	3/8"	27	30	60	32	69	113.5	29	32	19.8	0.4
HQ10	10	1/2"	27	30	63	32	75	121.5	29	32	19.8	0.4
HQ12	12	1/2"	36	36	71	38	83.5	138	40	40	24.5	0.7
HQ12	12	3/4"	36	36	71	38	83.5	138	40	40	24.5	0.7
HQ19	19	3/4"	46	46	84	47	98.5	161	50	50	30	1.35
HQ19	19	1"	46	46	84	47	98.5	161	50	50	30	1.35

\* 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
NE	Neoprene	90°C	-40°C
E	EPDM	150°C	-40°C
V	Viton	180°C	-15°C
S	Fluorosilicone	150°C	-50°C
K	Kalrez	300°C	-25°C

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

### PRESSURE RATING (bar)

Pressure \ Size	HQ10	HQ12	HQ19
Maximum working pressure coupled	375	350	350
Burst pressure coupled	1500	1500	1450
Burst pressure male	1200	1200	1200
Burst pressure female	1200	1050	1050

### ORDER CODES

**HQ 19 - M -12 G**

**H** = H Series

**Coupling Size**

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

**Thread size based on dash system**  
 06 = 3/8"  
 08 = 1/2"  
 10 = 5/8"  
 12 = 3/4"  
 16 = 1"

**Thread form**  
 G = BSP P  
 R = BSP T  
 N = NPT F  
 S = SAE  
 FS = ORFS  
 J = JIC  
 M = Metric  
 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.