

QRF/QRM PC SERIES

1/2 " ISO 'A' "PRESSURE CONNECT(PC)"

PULL BREAK HYDRAULIC COUPLINGS

APPLICATION

The QRF/QRM PC Series ISO 'A' couplings incorporate pressure relief mechanisms that enable them to be connected by hand, even when there are residual pressures in the hose lines.

When the PC male and female couplings are used, they can be connected when there is residual pressures of up to 250 bar in either of the hose lines.

If the PC coupling is to be connected with a standard ISO 'A' coupling, then the hose with the PC coupling can have up to 250 bar residual pressure whilst the hose with the standard coupling must be at zero pressure.

PULL BREAK FEMALE COUPLINGS

Used for connecting flexible hose lines. To connect, pull back the locking sleeve, insert the male, release the sleeve. To disconnect, pull back the locking sleeve and withdraw the male.

TECHNICAL INFO

Maximum working pressure 250 bar.

Fluid loss connecting with residual pressure 1.5 ml. Connection force without residual pressure 90 N. Connection force with residual pressure from:

$$CF = 90 + (0.55 \times RP)$$

CF = connection force (N)

RP = residual pressure (bar)

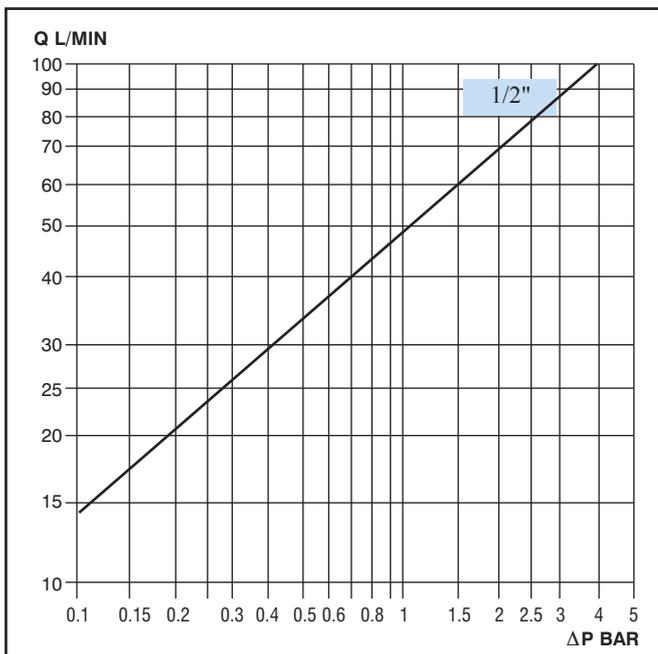
EXAMPLE

To connect a PC coupling with 220 bar residual pressure, $CF = 90 + (0.55 \times 220) = 211$ N

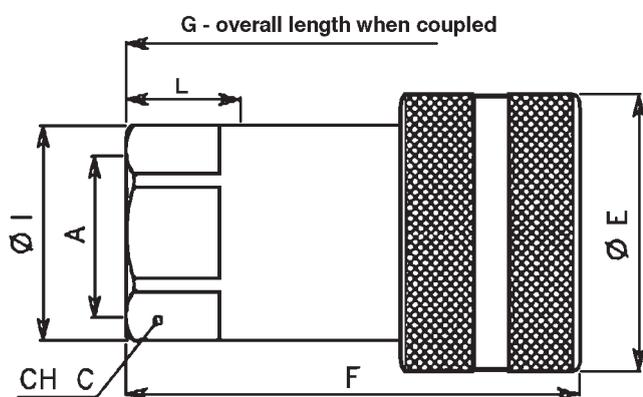
CONSTRUCTION

Zinc plated carbon steel body with nitrile seals and PTFE backing ring.

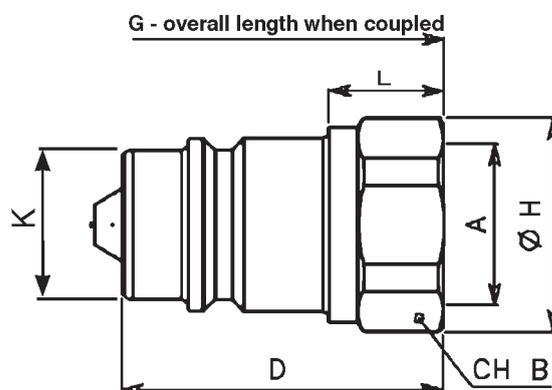
PRESSURE DROP FLOW CHART



**QRF/QRM PC, 1/2" ISO 'A' "Pressure Connect(PC)"
PULL BREAK HYDRAULIC COUPLINGS**



PULL BREAK FEMALE COUPLING



MALE COUPLING

MALE COUPLING DIMENSIONS

Type	Thread	A	B	D	G	H	K	L*	
QRM-PC	1/2"	1/2"	27	44.5	85.7	29	20.5	16	

* L = Thread depth

PULL BREAK FEMALE DIMENSIONS

Type	Thread	A	C	E	F	G	I	K	L*
QRF-PC	1/2"	1/2"	27	38	63.3	85.7	30	20.5	16

* L = Thread depth

