ISO A COUPLINGS

PC SERIES

"Connect Under Pressure" Pull-Break Hydraulic Couplings

INTRODUCTION

ISO A PC Series couplings incorporate pressure relief mechanisms that enable them to be connected by hand even when there are residual pressures in the hose lines.
When male and female PC couplings are used, they can be connected when there is residual pressures of up to 250 bar in either of the hose lines.
If a 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.

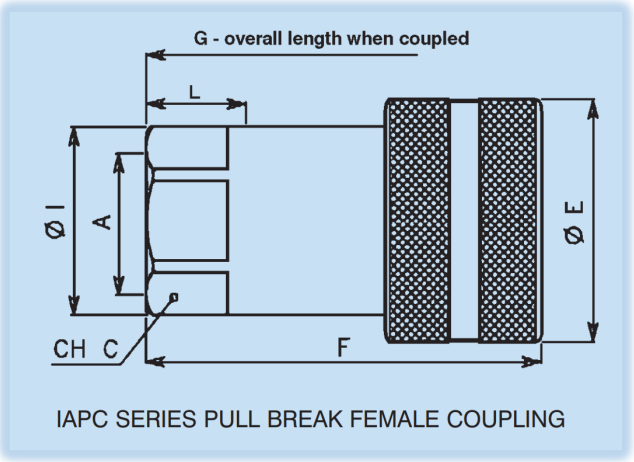
TECHNICAL DETAILS

Maximum working pressure 250 bar.
Fluid loss connecting with residual pressure 1.5mL.
Connection force (CF) without residual pressure 90 N.
CF with residual pressure from:
CF = 90 + (0.55 x RP)
CF = connection force (N)
RP = residual pressure (bar)

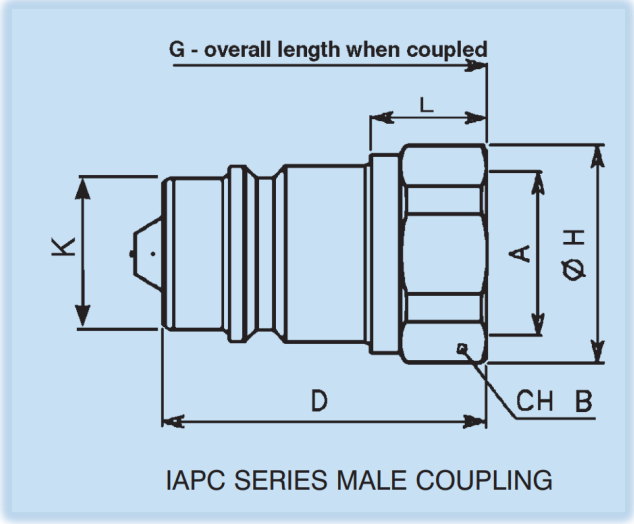
EXAMPLE
To connect a PC coupling with 220 residual pressure, CF = 90 + (0.55 x 220) = 211 N

Performance Characteristics	Coupler Size 1/2”	
Maximum working pressure (coupled)	320 Bar	4640 PSI
Burst pressure (coupled)	1500 Bar	21750 PSI
Burst pressure (male)	1500 Bar	21750 PSI
Burst pressure (female)	1400 Bar	20300 PSI
Rated flow	45 L/min	12 GPM

Dimensions



IAPC SERIES PULL BREAK FEMALE COUPLING



IAPC SERIES MALE COUPLING

Pull-Break Female (QAF...PC)

Part Number	Body Size	A (thread)	CH C	ØE	F	G	ØI	L*
QAF-BPF-PC-0808	1/2”	1/2” BSPP F	27	38	66	88.3	29.5	16

**L = Thread length*

Pull-Break Male (QAM...PC)

Part Number	Body Size	A (thread)	CH B	K	D	G	ØH	L*
QAM-BPF-PC-0808	1/2”	1/2” BSPP F	27	20.5	43.5	88.3	29.5	16

**L = Thread length*

All dimensions in mm unless otherwise stated. Dimensions shown are for guidance only, if critical contact FC staff.