

QUALITY

INTELLIGENT DESIGN  
EXCELLENCE

PARTNERSHIP

INTEGRATED SOLUTIONS



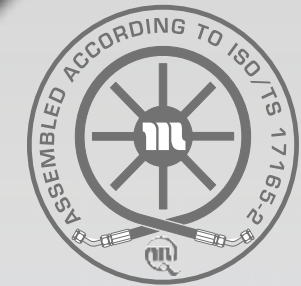
# MULTI-CONNECTOR QUICK COUPLINGS

 **manuli**<sup>®</sup>  
HYDRAULICS

# Why Manuli?

*Manuli Hydraulics is focused on achieving excellence in the design, manufacture and supply of fluid conveyance solutions, components and associated equipment for high pressure hydraulics, refrigeration and oil and marine applications.*

*Quality and sustainable development are the driving forces of all Manuli Hydraulics' activities, with an aim to guarantee worldwide availability of technical and commercial support for its products and services.*



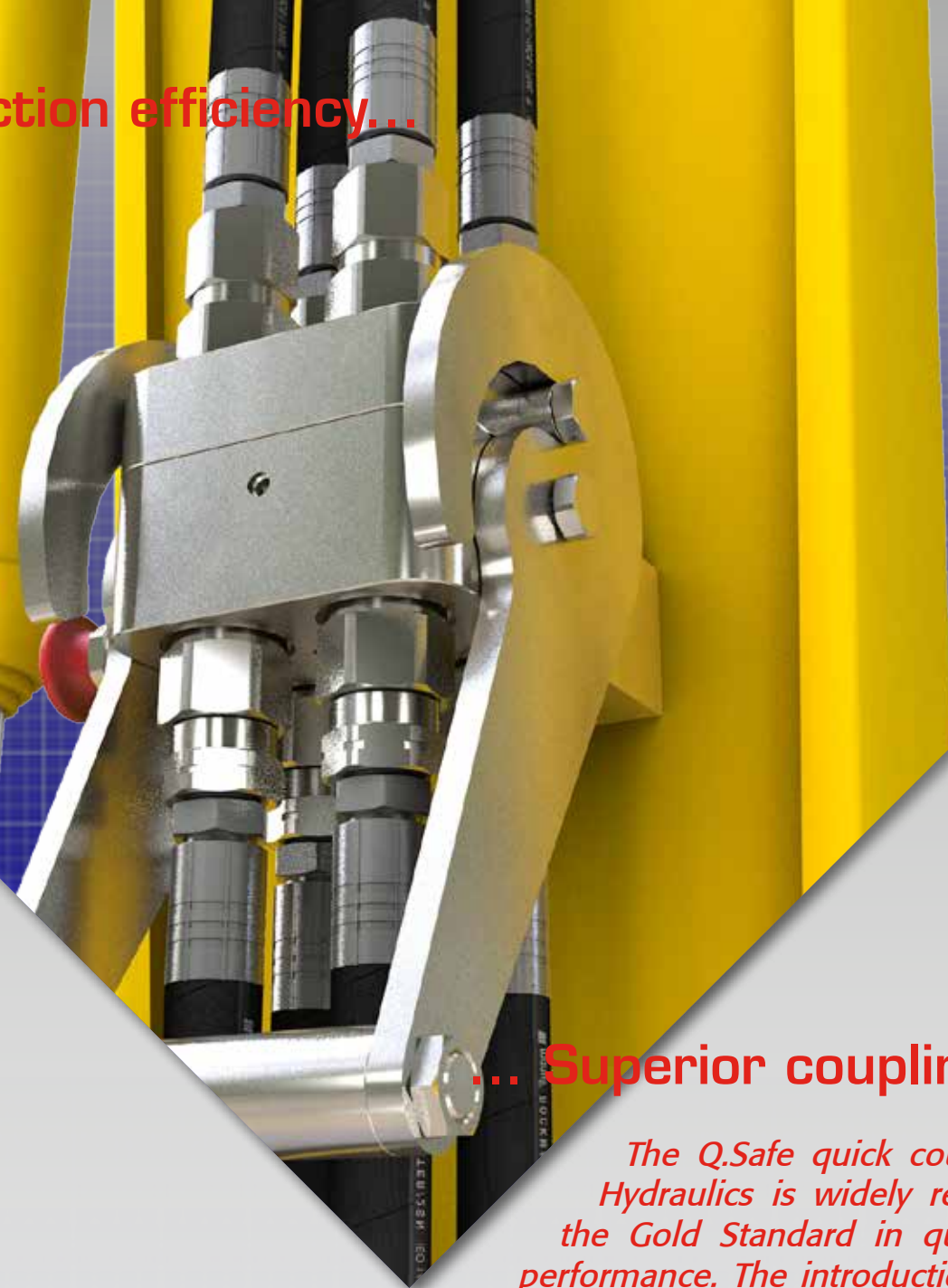
## An integrated approach

Modern hydraulics applications require robust fluid connector solutions with guaranteed long lasting performance. To that end, Manuli Hydraulics offers a complete range of hoses, fittings and assembly equipment which are designed to work seamlessly together. This harmonised approach allows us to guarantee the quality and performance of hose assemblies in a way that our competitors simply cannot match.

From design to manufacture and assembly, our commitment to this unified philosophy makes us the global leader in providing integrated solutions for hydraulic connector applications.



ction efficiency...



## ... Superior coupling performance

*The Q.Safe quick coupling range from Manuli Hydraulics is widely renowned for representing the Gold Standard in quick coupling quality and performance. The introduction of the Q.Safe Flat Face Multiconnector range combines this superior performance with the added efficiency and safety related benefits of a multiconnector block system.*

### **Q.Safe Multiconnector Benefits:**

- Reduces connection time when multiple connectors are used
- No risk of incorrect connection
- No misalignment between mobile and static blocks
- Compact design for minimal added weight
- Flat face couplings allow high pressures (350 bar) and high flow rates
- Easy to clean
- Universally interchangeable according to ISO 16028
- Industry leading performance with reduced pressure drop
- Almost zero (between 0.007cc and 0.009cc) oil spillage on connection / disconnection
- Connection under residual pressure
- Allows hoses to be arranged closer together whilst still allowing easy access

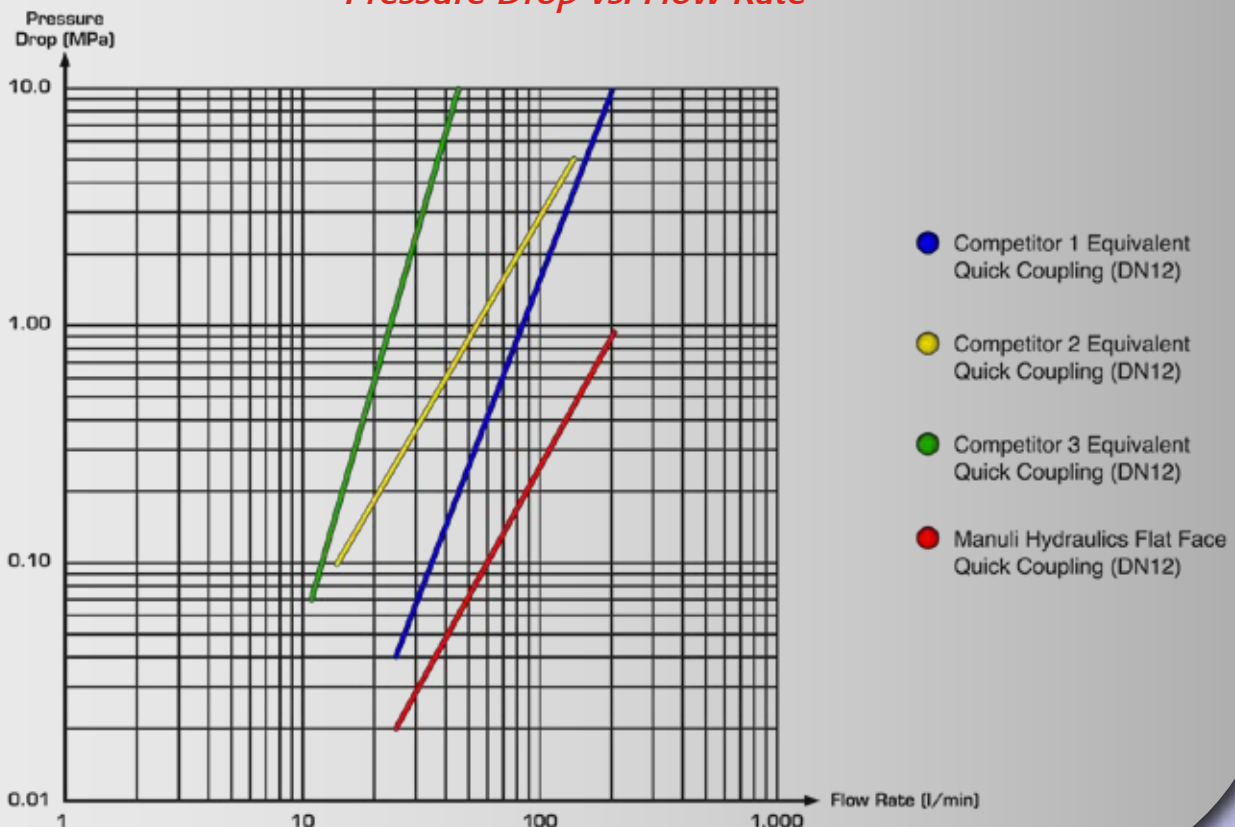
# The Manuli Advantage



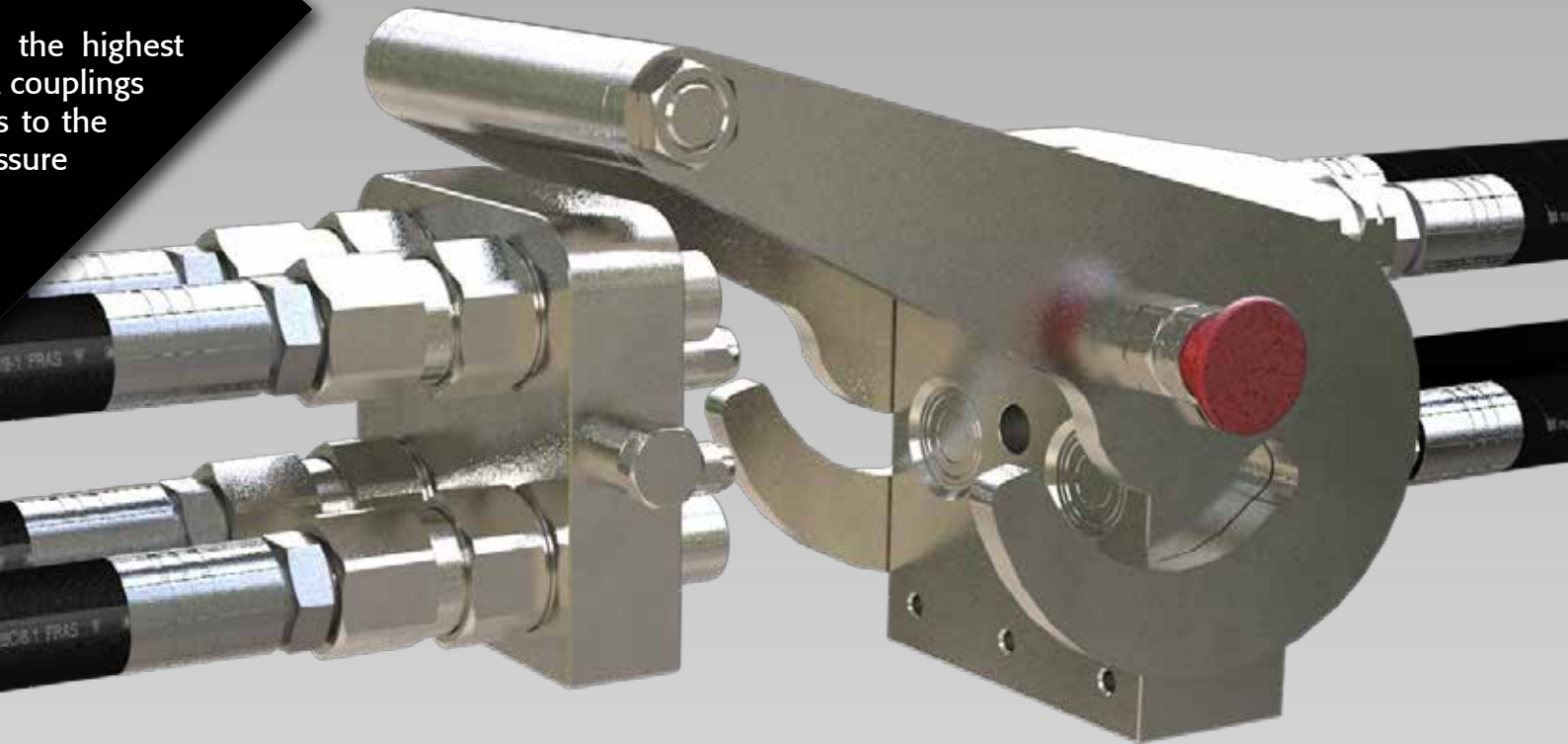
Precision engineered and manufactured to industry standards, the Q.Safe range of flat-face quick couplers are regarded as the "product-to-beat" thanks to their unique inner profile which minimises pressure drop across the coupling.

The Q.Safe Flat Face Multiconnector series uses this same inner profile design, making it the most energy efficient multiconnector product available.

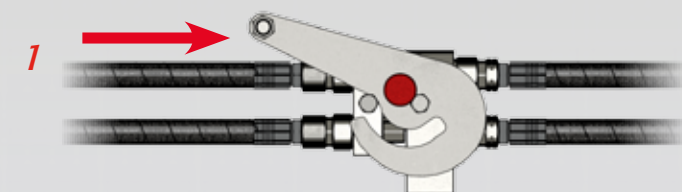
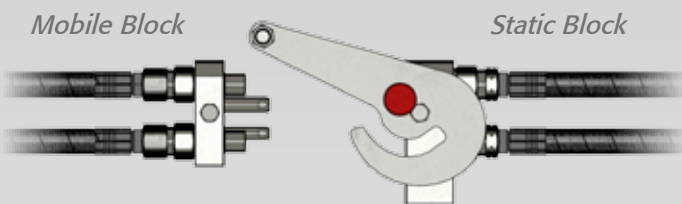
*Pressure Drop vs. Flow Rate*



the highest  
couplings  
to the  
pressure

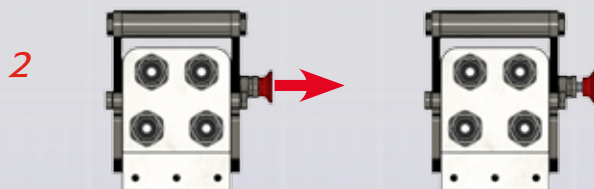


### *It's as easy as 1... 2... 3*

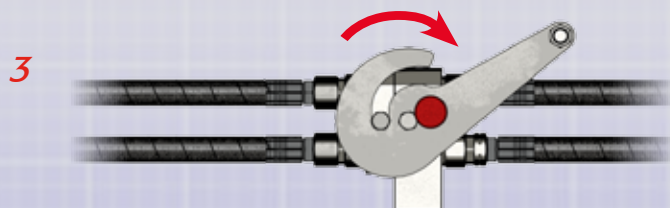


**The simple, robust design of the Q.Safe Multiconnector means that connecting up to 8 individual couplings couldn't be easier.**

Simply position the mobile block so that the couplings sit against the face of the static block. The extended pins will slide into the mating holes to ensure perfect alignment.









Pull out the red locking pin to allow the handle to move.









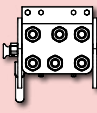
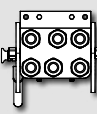
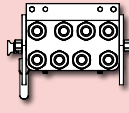
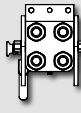
Move the handle in the direction shown to pull the mobile block towards the static block, making the connection with the couplings. The red pin will pop back in when the connection is complete, effectively locking the two parts together.

## Technical Data - Flat Face Quick Coupling for Multiconnector

													
<b>SIZE</b>	<b>WORKING PRESSURE - CONNECTED (Dynamic)</b>		<b>WORKING PRESSURE - DISCONNECTED (Dynamic)</b>		<b>RATED FLOW at 0.2 MPa of pressure drop</b>		<b>OIL SPILLAGE Connection/ Disconnection</b>		<b>MINIMUM BURST PRESSURE</b>			<b>CONNECTION/ DISCONNECTION UNDER PRESSURE</b>	

mm	inch	dash	MPa		PSI		l/min	US GPM	cc.	cubic inch	Male		Female		M & F		
			MPa	PSI	MPa	PSI					MPa	PSI	MPa	PSI	MPa	PSI	
10	3/8	06	35	5075	35	5075	45	11.9	0.007	0.0004	160	23200	140	20300	180	26100	Allowed
12.5	1/2	08	35	5075	35	5075	75	19.8	0.008	0.0005	170	24650	150	21750	180	26100	Allowed
19	3/4	12	35	5075	35	5075	125	33.0	0.009	0.0005	145	21025	145	21025	160	23200	Allowed

## Ordering Information - Q.Safe Multiconnector Series

PART NUMBER		CONFIGURATION	NO. OF LINES	SIZE			THREAD
FIXED PART	MOBILE PART			mm	inch	dash	
Q401B0F-041-06	Q401B0M-041-06		2	10	3/8"	-06	BSPP 3/8" FEMALE
Q402B0F-041-08	Q402B0M-041-08		2	12.5	1/2"	-08	BSPP 1/2" FEMALE
Q403D0F-041-06	Q403D0M-041-06		4	10	3/8"	-06	BSPP 3/8" FEMALE
Q404D0F-041-08	Q404D0M-041-08		4	12.5	1/2"	-08	BSPP 1/2" FEMALE
Q405B0F-041-06	Q405B0M-041-06		2	10	3/8"	-06	BSPP 3/8" FEMALE
Q406D0F-AA	Q406D0M-AA		2	12.5	1/2"	-08	BSPP 1/2" FEMALE
			2	19	3/4"	-12	BSPP 3/4" FEMALE
Q407F0F-041-06	Q407F0M-041-06		6	10	3/8"	-06	BSPP 3/8" FEMALE
Q408F0F-041-08	Q408F0M-041-08		6	12.5	1/2"	-08	BSPP 1/2" FEMALE
Q409H0F-041-08	Q409H0M-041-08		8	12.5	1/2"	-08	BSPP 1/2" FEMALE
Q410D0F-041-08	Q410D0M-041-08		4	12.5	1/2"	-08	BSPP 1/2" FEMALE

## Solutions designed to suit every situation

*At Manuli Hydraulics we realise that there is no such thing as a "standard application", and that's why we have developed an extensive range of multiconnector configurations. So, whether you need a 2, 4, 6 or 8 line multiconnector there is a model ideally suited to your needs.*



# Q.Safe

**To find out more about the Manuli Hydraulics Q.Safe Multiconnector range please contact your local sales representative or email [info@manuli-hydraulics.com](mailto:info@manuli-hydraulics.com)**

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[www.manuli-hydraulics.com](http://www.manuli-hydraulics.com)

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