

KEY FEATURES AND BENEFITS

- Reduction of elements to be assembled that lead to following benefits:
 - Reduction of assembly cost
 - Risk reduction of assembly operation mistakes
 - More safety in severe working conditions
 - Easier maintenance and replacement operations
- Definitely improved resistance against oil leakage
- Risk elimination of unscrewing troubles in the field
- Design solution available for most common Q-Safe series

FIELD APPLICATIONS



Forestry



Agriculture



Construction & earth moving

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Q.Safe&M^F2000™

MQS-DHI PRODUCT RANGE



NEW
PATENT
PENDING

MADE IN
manuli®

manuli®
RUBBER INDUSTRIES

CONCEPT & TECHNOLOGY

- Innovative system to assembly the quick-release coupling to the flexible hose, avoiding intermediate connection elements and reducing assembling operations

- “Direct to hose” concept: less sealing surfaces lead to oil leakage risk reduction

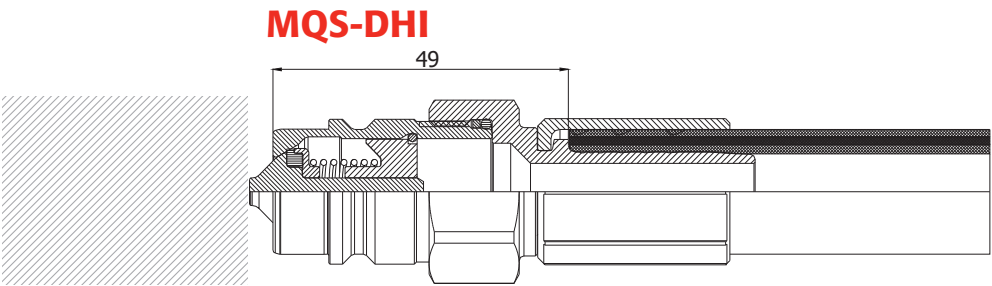
- Full integrated design solution between **QSafe** and **MF2000™**

- Patent pending

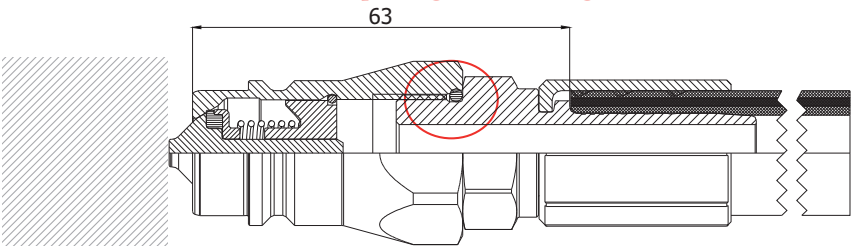


Compact Design

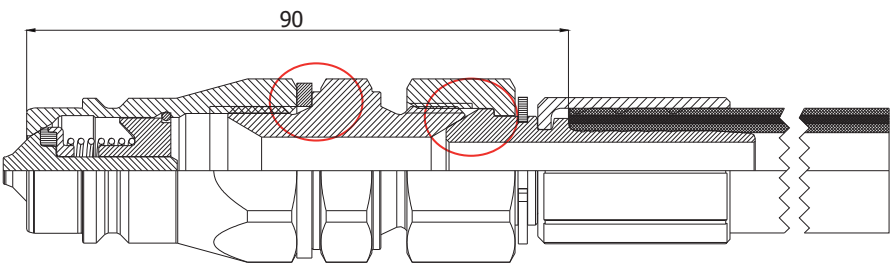
- Reduced dimensions
- Less mechanical stress on the quick coupling caused by flexible hose lateral force



Quick coupling > fitting



Quick coupling > adaptor > fitting



QSafe & MF2000™








MQS-DHI

FLAT-FACE

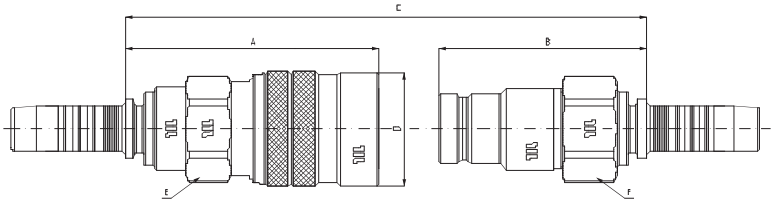
KEY FEATURES

- Connection is made by pushing the male coupling and disconnection by pulling back the sleeve of the female
- Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection
- Stainless steel springs in the female coupling
- Interchangeability according to ISO 16028 and HTMA standards



SIZE																				
			WORKING PRESSURE (Dynamic)		RATED FLOW		PRESSURE DROP by rated flow		CONNECTION EFFORT		OIL SPILLAGE Connection/ Disconnection		MINIMUM BURST PRESSURE (MPa)						CONNECTION / DISCONNECTION UNDER PRESSURE	
													Male		Female		M+F			
mm	inch	dash	MPa	PSI	L/min.	PSI	MPa	PSI	N	lb.	cc.	cubic inch.	MPa	PSI	MPa	PSI	MPa	PSI		
10	3/8"	-06	25	3625	23	6,1	0,08	11,6	130	289	0,007	0,0004	140	20300	110	15950	140	20300	Not allowed	
12,5	1/2"	-08	25	3625	45	11,9	0,05	7,3	140	311	0,008	0,0005	100	14500	120	17400	150	21750	Not allowed	

Q34111MF1A - Q33911MF1A COUPLINGS WITH MULTIFIT INSERT



SIZE			PART NUMBER			TAIL	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	
10	3/8"	-06	Q34111MF1A-06-06	Q33911MF1A-06-06	3/8" MF2000	69,7	58,3	A+B-15,9	ø32	ch. 27	ch. 27	
			Q34111MF1A-06-08	Q33911MF1A-06-08	1/2" MF2000	69,7	56,7	A+B-15,9	ø32	ch. 27	ch. 27	
12,5	1/2"	-08	Q34111MF1A-08-08	Q33911MF1A-08-08	1/2" MF2000	78,8	66,7	A+B-17,1	ø38	ch. 34	ch. 34	
			Q34111MF1A-08-12	Q33911MF1A-08-12	3/4" MF2000	75,7	65,1	A+B-17,1	ø38	ch. 34	ch. 34	

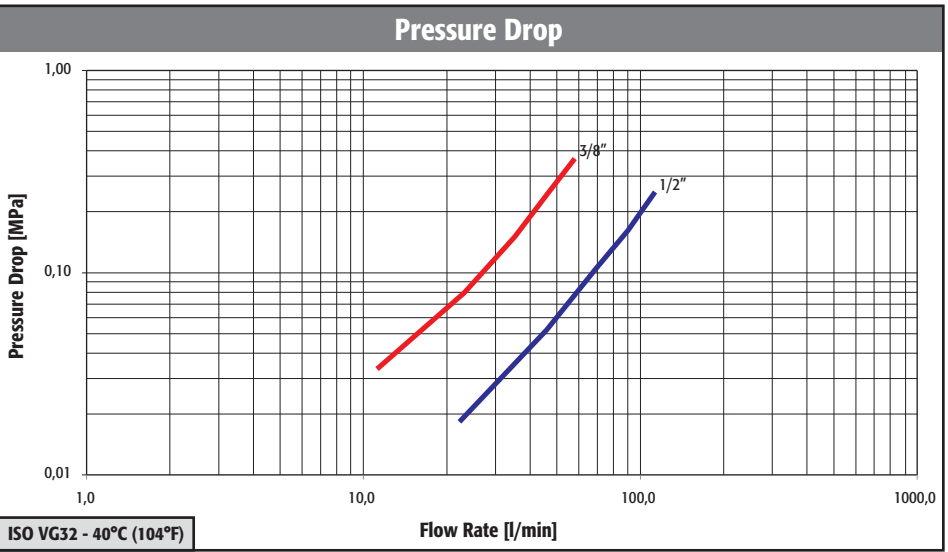
MATERIAL
Female and male coupling in steel, with some stressed tempered or carbonitrited areas. Springs in AISI and C98 steel, seals in polyurethane and NBR. Other materials (VITON, EPDM or any others) on request.

WORKING TEMPERATURE
-30°C up to +110°C / -22°F up to +230°F (for other temperatures the coupling is assembled with the specified seals).

SAFETY FACTOR
1:4 for dynamic pressures and 1:2 for static ones.

IMPULSE PRESSURES
100.000 cycles at 133% of the rated one (freq. 1Hz).

TEST SPECIFICATIONS
ISO 16028 and ISO 7241-2.



QSafe & MF2000™








MQS-DHI

ISO A

KEY FEATURES

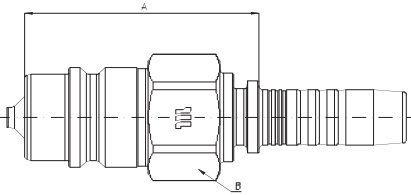
- Dimensional and performance requirements conform to ISO 7241-1 series A, ensuring worldwide interchangeability
- Connection by pushing the male coupling and disconnection by pulling back the male coupling, when female coupling is bulkhead mounted on the outside sleeve
- Positive connection by the locking ball system
- Shut-off by poppet valve provides an effective hydraulic sealing
- When female bulkhead mounted on the outside sleeve, the coupling ensures breakaway features according to ISO 5675



SIZE																			
			WORKING PRESSURE (Dynamic)	RATED FLOW	PRESSURE DROP by rated flow	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)			CONNECTION / DISCONNECTION UNDER PRESSURE								
			Male	Female	M+F														
mm	inch	dash	MPa	PSI	L/min.	PSI	MPa	PSI	N	lb.	cc.	cubic inch.	MPa	PSI	MPa	PSI	MPa	PSI	
12,5	1/2"	-08	30	4350	45	11,9	0,09	13,1	80	178	1,8	0,110	125	18125	160	23200	160	23200	Not allowed

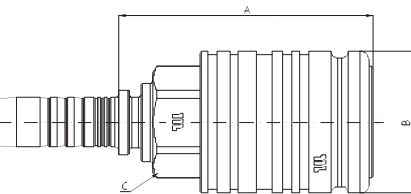
Q30211MF1A MALE COUPLING WITH MULTIFIT INSERT

SIZE			PART NUMBER	TAIL	DIMENSIONS mm	
mm	inch	dash	Male Coupling		A	B
12,5	1/2"	-08	Q30211MF1A-08-06	3/8" MF2000	50,8	ch. 27
			Q30211MF1A-08-08	1/2" MF2000	49,2	ch. 27



Q31311MF1A FEMALE COUPLING WITH MULTIFIT INSERT

SIZE			PART NUMBER	TAIL	DIMENSIONS mm		
mm	inch	dash	Male Coupling		A	B	C
12,5	1/2"	-08	Q31311MF1A-08-06	3/8" MF2000	62	ø38	ch. 27
			Q31311MF1A-08-08	1/2" MF2000	60,4	ø38	ch. 27



MATERIAL
Female and male couplings in steel, with some hardened areas, in correspondence to the most stressed points. Carbonitrited valve, springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE.

WORKING TEMPERATURE
-30°C up to +110°C / -22°F up to +230°F (for other temperatures, the coupling may be assembled with the specific seals).

SAFETY FACTOR
1:4 for dynamic pressures and 1:2 for static pressures.

IMPULSE PRESSURES
100.000 cycles at 133% of the rated one (freq. 1Hz).

TEST SPECIFICATIONS
ISO 7241-2.

