

## TECHNICAL FEATURES AND OPTIONS

### Quick Couplings (Sockets)



Locking Mechanism  
Locking Ball System



Working Temperature  
-20°C / +100°C



Interchange  
ISO 7241 -1 "A"



Operating Pressure  
Up to 350 Bar



Available Threads  
BSP - NPT



Available Sizes  
From 1/4" to 2"



Sealing Description  
Nitrile NBR

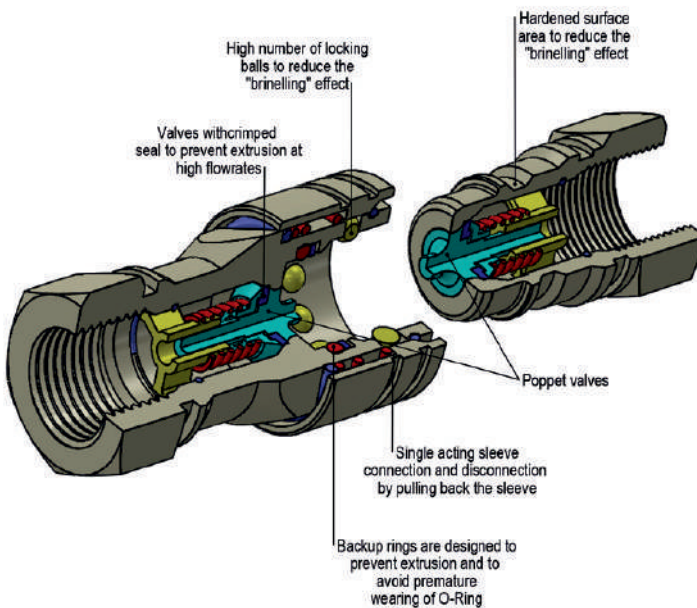


Flow Rate  
Up to 753 l / min



Material  
High Strength Carbon Steel

## BENEFITS



- Connection under residual pressure is allowed in the male or in the female (PC version). Please notice that the counterpart side should be drained and should use a standard ISO A poppet half.
- The poppet valve with elastomer seal provides maximum sealing of the couplings once disconnected.
- Shape of internal parts is designed to reduce turbulence and pressure drop.
- Compact design.
- Simple to use.



## HOW TO USE

## MAIN APPLICATIONS



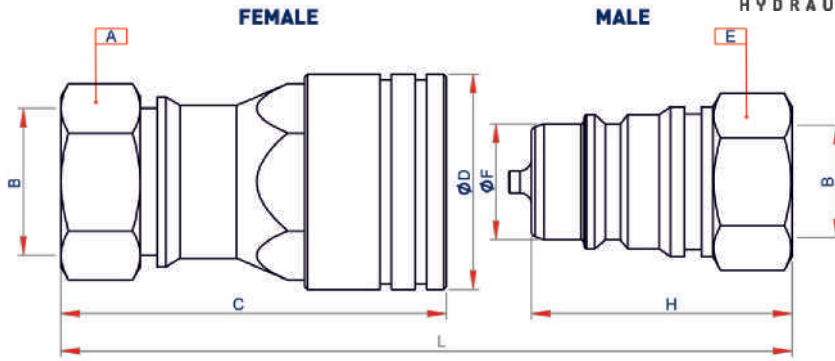
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- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect pull back the sleeve of the female coupling, align the female with the male coupling and push one into the other until both halves are fully connected and release the sleeve.
- To disconnect push back the sleeve of the female coupling, pull out the mating half.

# DETAILS



SIZE	Product Code	Product Name	ISO DN	HEX			Port B	Diameter			Length		Weight		Work Pressure		
				mm	inch			mm	inch	mm	inch	kg	lbs	MPa	psi		
1/4"	HQC-101	Coupled	6.3				1/4"				L	74.50	2.93	0.18	0.39	35	5076
	HQC-101-A	Female		A	22	0.87		D	30	1.18	C	55	2.16	0.13	0.28	35	5076
	HQC-101-B	Male		E	19	0.75		F	14.20	0.56	H	37	1.45	0.05	0.11	35	5076
3/8"	HQC-102	Coupled	10				3/8"				L	80.5	3.17	0.26	0.57	33	4786
	HQC-102-A	Female		A	27	1.06		D	35	1.37	C	60.5	2.38	0.20	0.44	33	4786
	HQC-102-B	Male		E	22	0.87		F	18.70	0.73	H	40	1.57	0.06	0.13	33	4786
1/2"	HQC-103	Coupled	12.5				1/2"				L	93	3.66	0.37	0.81	32	4641
	HQC-103-A	Female		A	30	1.18		D	38	1.49	C	68.50	2.69	0.28	0.61	32	4641
	HQC-103-B	Male		E	27	1.06		F	20.50	0.80	H	46	1.81	0.09	0.20	32	4641
3/4"	HQC-104	Coupled	20				3/4"				L	111	4.37	0.68	1.50	28	4061
	HQC-104-A	Female		A	36	1.41		D	48	1.89	C	83	3.26	0.48	1.05	28	4061
	HQC-104-B	Male		E	38	1.49		F	28.95	1.14	H	55	2.16	0.20	0.45	28	4061
1"	HQC-105	Coupled	25				1"				L	131	5.15	1.06	2.33	25	3626
	HQC-105-A	Female		A	46	1.81		D	55	2.16	C	98	3.85	0.76	1.67	25	3626
	HQC-105-B	Male		E	41	1.61		F	34.20	1.34	H	66	2.59	0.30	0.66	25	3626
1" 1/4"	HQC-106	Coupled	31.5				1" 1/4"				L	151	5.94	1.84	4.05	23	3336
	HQC-106-A	Female		A	55	2.16		D	68	2.67	C	117	4.60	1.30	2.86	23	3336
	HQC-106-B	Male		E	50	1.96		F	44.90	1.76	H	75	2.95	0.54	1.19	23	3336
1" 1/2"	HQC-107	Coupled	40				1" 1/2"				L	169	4.30	3.45	7.60	22	3191
	HQC-107-A	Female		A	70	2.75		D	83	3.26	C	134	5.27	2.52	5.55	22	3191
	HQC-107-B	Male		E	60	2.36		F	54.90	2.16	H	84	3.30	0.93	2.05	22	3191
2"	HQC-108	Coupled	50				2"				L	197	7.75	5.50	12.12	20	2900
	HQC-108-A	Female		A	80	2.03		D	99	3.90	C	160	6.30	4.00	8.82	20	2900
	HQC-108-B	Male		E	75	1.90		F	65	2.56	H	97	3.82	1.50	3.30	20	2900

SIZE	Max. Fullow Suggested		Connect Force		Disconnect Force		Spillage
	l / min	GPM	N	lbf	N	lbf	
1/4"	23	6.07	60	13.50	25	5.63	0.70
3/8"	48	12.68	90	20.25	30	6.75	1.20
1/2"	65	17.17	70	15.75	55	12.38	2.10
3/4"	142	37.52	140	31.50	55	12.38	5.20
1"	258	68.16	190	47.75	55	12.38	9.00
1" 1/4"	349	92.21	230	51.75	55	12.38	27.00
1" 1/2"	502	132.63	250	56.25	70	13.75	49.00
2"	753	198.94	270	60.75	60	13.50	75.00

Fluid: OIL ISO VG46  
 Temperature: 40 C  
 Viscosity: 41.4-50.6 mm<sup>2</sup>/s  
 • Spillage is an indicative value of the fluid loss during disconnection  
 Test Pressure: 5.0 Bar  
 Test in Accordance: ISO 18869:2017

Temperature Range:  
 Seals in NBR (Nitrile): From -20 C to +100 C (-4 F to +121 F)  
 Upon request seals in VITONR : From -15 C TO +180 C (+5 F to +356 F)

SIZE	Max. Operating Pressure						Burst Pressure					
	Coupled		Male		Female		Coupled		Male		Female	
	MPa	ps	MPa	ps	MPa	ps	MPa	ps	MPa	ps	MPa	ps
1/4"	35	5076	35	5076	35	5076	126	18270	126	18270	126	18270
3/8"	33	4786	33	4786	33	4786	100	14500	100	14500	100	14500
1/2"	32	4641	32	4641	32	4641	80	11600	80	11600	100	14500
3/4"	28	4061	28	4061	28	4061	100	14500	100	14500	100	14500
1"	25	3626	25	3626	25	3626	80	11600	80	11600	80	11600
1" 1/4"	23	3336	23	3336	23	3336	80	11600	80	11600	80	11600
1" 1/2"	22	3191	22	3191	22	3191	64	9280	64	9280	64	9280
2"	20	2900	20	2900	20	2900	40	5800	40	5800	40	5800

- Never connect or disconnect with dynamic pressure (e.g. pump on).
- Do not use the female coupling disconnected with high impulse pressure.
- Do not couple - uncouple with flow and/or pressure in the circuit.
- Do not couple - uncouple when the temperature inside of the circuit is higher than 80°C / 176 °F
- Check the maximum allowable working pressure of the port in use.
- Make sure that the medium used is compatible with seal and material as indicated for each series.