

HYDRAULIC QUICK RELEASE COUPLINGS • SECTION NP6

# FLOWFIT HYDRAULIC QUICK RELEASE COUPLINGS

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# FLOWFIT®







# FLOWFIT HYDRAULIC ISO A QUICK RELEASE COUPLINGS MALE & FEMALE ENDS

## ISO A QUICK RELEASE COUPLING PRICE LIST

PRODUCT REFERENCE	DESCRIPTION	RRP
QRCISOAF14	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 1/4" BSP, DN04, ISO 6.3, 315 BAR RATED, 12 L/MIN	£4.22
QRCISOAM14	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 1/4" BSP, DN04, ISO 6.3, 315 BAR RATED, 12 L/MIN	£2.25
QRCISOAF38	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 3/8" BSP, DN06, ISO 10, 315 BAR RATED, 23 L/MIN	£4.56
QRCISOAM38	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 3/8" BSP, DN06, ISO 10, 315 BAR RATED, 23 L/MIN	£2.14
QRCISOAF12	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 1/2" BSP, DN08, ISO 12.5, 250 BAR RATED, 45 L/MIN	£5.87
QRCISOAM12	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 1/2" BSP, DN08, ISO 12.5, 250 BAR RATED, 45 L/MIN	£2.16
QRCISOAF34	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 3/4" BSP, DN12, ISO 20, 250 BAR RATED, 106 L/MIN	£10.30
QRCISOAM34	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 3/4" BSP, DN12, ISO 20, 250 BAR RATED, 106 L/MIN	£5.43
QRCISOAF1	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 1" BSP, DN16, ISO 25, 200 BAR RATED, 189 L/MIN	£17.26
QRCISOAM1	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 1" BSP, DN16, ISO 25, 200 BAR RATED, 189 L/MIN	£8.37
QRCISOAF114	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 1 1/4" BSP, DN20, ISO 31.5, 200 BAR RATED, 288 L/MIN	£28.05
QRCISOAM114	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 1 1/4" BSP, DN20, ISO 31.5, 200 BAR RATED, 288 L/MIN	£18.02
QRCISOAF112	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 1 1/2" BSP, DN24, ISO 40, 160 BAR RATED, 379 L/MIN	£82.68
QRCISOAM112	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 1 1/2" BSP, DN24, ISO 40, 160 BAR RATED, 379 L/MIN	£40.28
QRCISOAF2	HYDRAULIC ISO A QUICK RELEASE COUPLING FEMALE 2" BSP, DN32, ISO 50, 200 BAR RATED 757 L/MIN	£146.28
QRCISOAM2	HYDRAULIC ISO A QUICK RELEASE COUPLING MALE 2" BSP, DN32, ISO 50, 200 BAR RATED 757 L/MIN	£68.90

## ACCESSORIES PRICE LIST

PRODUCT REFERENCE	DESCRIPTION	RRP
PPQRCISOAF14	PLASTIC DUST PLUG FOR 1/4" BSP, DN04 ISO A FEMALE QRC	£0.85
PPQRCISOAM14	PLASTIC DUST CAP FOR 1/4" BSP, DN04 ISO A MALE QRC	£0.85
PPQRCISOAF38	PLASTIC DUST PLUG FOR 3/8" BSP, DN06 ISO A FEMALE QRC	£1.02
PPQRCISOAM38	PLASTIC DUST CAP FOR 3/8" BSP, DN06 ISO A MALE QRC	£1.02
PPQRCISOAF12	PLASTIC DUST PLUG FOR 1/2" BSP, DN08 ISO A FEMALE QRC	£1.02
PPQRCISOAM12	PLASTIC DUST CAP FOR 1/2" BSP, DN08 ISO A MALE QRC	£1.02
PPQRCISOAF34	PLASTIC DUST PLUG FOR 3/4" BSP, DN12 ISO A FEMALE QRC	£1.10
PPQRCISOAM34	PLASTIC DUST CAP FOR 3/4" BSP, DN12 ISO A MALE QRC	£1.10
PPQRCISOAF1	PLASTIC DUST PLUG FOR 1" BSP, DN16 ISO A FEMALE QRC	£1.95
PPQRCISOAM1	PLASTIC DUST CAP FOR 1" BSP, DN16 ISO A MALE QRC	£1.95
ALQRCISOAF114	ALUMINIUM DUST PLUG FOR 1 1/4" BSP, DN20 ISO A FEMALE QRC	£21.86
ALQRCISOAM114	ALUMINIUM DUST CAP FOR 1 1/4" BSP, DN20 ISO A MALE QRC	£20.41
ALQRCISOAF112	ALUMINIUM DUST PLUG FOR 1 1/2" BSP, DN24 ISO A FEMALE QRC	£22.97
ALQRCISOAM112	ALUMINIUM DUST CAP FOR 1 1/2" BSP, DN24 ISO A MALE QRC	£22.74
ALQRCISOAF2	ALUMINIUM DUST PLUG FOR 2" BSP, DN32 ISO A FEMALE QRC	£35.38
ALQRCISOAM2	ALUMINIUM DUST CAP FOR 2" BSP, DN32 ISO A MALE QRC	£34.80



# FLOWFIT HYDRAULIC FLAT FACE QUICK RELEASE COUPLINGS MALE & FEMALE ENDS

Flowfit hydraulic flat face quick release couplings of this series represent the first genuine revolution in the field of applications for flat face quick release couplings. Where previous models performed well at low operating pressures and with limited fluctuations in pressure, these new couplings can be used in applications typified by high operating pressures, high flow rates and low pressure drops, offering the same guarantees as components of conventional design.

Flowfit couplings are manufactured to the new ISO 16028 standard. This guarantees:

Interchangeability with other couplings responding to the new standard,  
Maximum operating pressure 350 bar for all sizes.  
dependable operation of the coupling and low pressure drops are guaranteed, irrespective of the flow direction, male to female or female to male.

Flowfit Hydraulic Flat Face Quick Release Couplings Interchange with:

Parker FE  
Safeway S56  
Faster 2FFI  
Aeroquip FD 89  
Snap Tite 74  
DNP PLT4  
Tomco FE  
Stucchi FIRG

Please refer to the specification table below to ensure the correct size is selected.

Red plastic caps for female/male couplings up to 1" BSP available to protect and stop dirt entering the quick releases and your hydraulic circuit.

## WARNING

These couplings are unsuitable for use on Pulse/Hammer applications.



## INSTRUCTIONS FOR USE

Prior to connecting ensure that the mating surfaces of the couplings are clean and free of dirt to avoid contamination of the hydraulic system.

To connect, push both couplings together until the locking mechanism engages.

For added security and to prevent accidental disconnection, rotate the collar on the female coupling a quarter turn.

To disconnect, rotate the collar on the female coupling until the notch aligns with protruding ball bearing then pull the collar back, allowing the couplings to disengage.

## CAUTION

Under no circumstances should the couplings be connected or disconnected with pressure in the hydraulic system.

Whilst in use, the couplings may become hot (up to +100°C). Protective gloves should be worn when disconnecting.

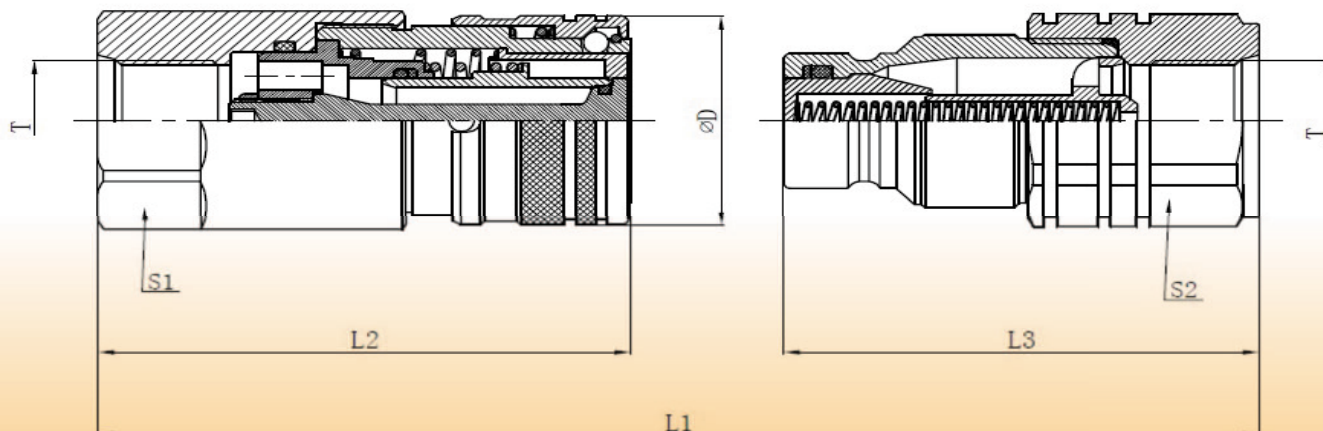
To reduce the risk of contamination, the use of protective caps on the couplings when they are disconnected is strongly recommended (available separately).

Do not use on Pulse/Hammer applications!

## SPECIFICATION

**Materials:** zinc-plated carbon steel body  
**Seals:** standard in nitrile NBR. On request FKM, EPDM and VMQ seals

**Back-up ring:** in pure Teflon  
**Working temperature:** with standard seals -25°C + 125°C





# FLOWFIT HYDRAULIC FLAT FACE QUICK RELEASE COUPLINGS MALE & FEMALE ENDS

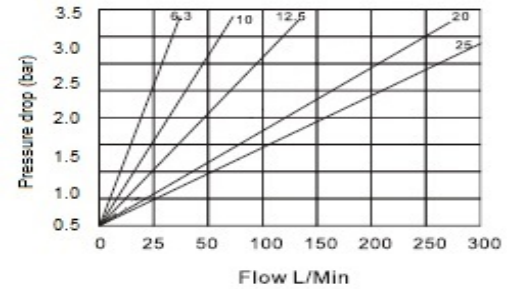
(F)=Female (M)=Male

DN	ISO	L1	L2	L3	ØD	S1	S2	T	PRODUCT REFERENCE (F)	PRODUCT REFERENCE (M)
04	6.3	100.0	58.5	53.3	28.0	22.0	22.0	1/4" BSP	QRCFFF14	QRCFFM14
06	10	121.0	73.5	61.2	32.0	30.0	30.0	3/8" BSP	QRCFFF38	QRCFFM38
06	10	121.0	73.5	61.2	32.0	30.0	30.0	1/2" BSP	QRCFFF12-38	QRCFFM12-38
08	12.5	143.5	73.4	74.0	38.0	36.0	36.0	1/2" BSP	QRCFFF12	QRCFFM12
08	12.5	143.5	73.4	74.0	38.0	36.0	36.0	3/4" BSP	QRCFFF34-12	QRCFFM34-12
12	20	154.0	95.0	87.0	48.0	41.0	41.0	3/4" BSP	QRCFFF34	QRCFFM34
12	20	154.0	95.0	87.0	48.0	41.0	41.0	1" BSP	QRCFFF1-34	QRCFFM1-34
16	25	177.0	109.5	92.0	55.0	50.0	50.0	1" BSP	QRCFFF1	QRCFFM1
16	25	177.0	109.5	92.0	55.0	50.0	50.0	1 1/4" BSP	QRCFFF1620114	QRCFFM1620114
24	40	224.0	133.0	120.0	80.0	65.0	70.0	1-1/2" BSP	QRCFFF24112	QRCFFM24112
32	50	284.0	147.5	173.0	102.0	80.0	80.0	2" BSP	QRCFFF322	QRCFFM322

## TECHNICAL DATA

NOMINAL SIZE		MAX. WORKING PRESSURE (BAR)	MAX FLOW (L/M)	RATED FLOW (L/M)	MIN BURST PRESSURE (BAR)			FLUID SPILLAGE (CC)
DN	ISO				MALE	FEMALE	COUPLED	
04	6.3	400	24	12	1900	1900	1430	0.008
06	10	350	46	23	1560	1780	1610	0.01
08	12.5	350	90	45	1700	1590	1900	0.012
12	20	350	170	100	1660	1470	1840	0.02
16	25	350	378	189	1470	1400	1530	0.03
24	40	250	750	379	1000	1000	1000	0.25
32	50	250	1000	758	1000	1000	1000	0.35

FLOW CURVE/PRESSURE DROP



## ACCESSORIES

DN	ISO	FEMALE DUST PLUG	MALE DUST CAP	MATERIAL
04	6.3	PPQRCFFF14	PPQRCFFM14	PLASTIC
06	10	PPQRCFFF38	PPQRCFFM38	PLASTIC
12	20	PPQRCFFF34	PPQRCFFM34	PLASTIC
16	25	PPQRCFFF1	PPQRCFFM1	PLASTIC



**See next page for prices**

# FLOWFIT HYDRAULIC FLAT FACE QUICK RELEASE COUPLINGS MALE & FEMALE ENDS



## FLAT FACE QUICK RELEASE COUPLING PRICE LIST

PRODUCT REFERENCE	DESCRIPTION	RRP
QRCFFF14	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1/4" BSP, DN04, ISO 6.3, 400 BAR RATED, 12 L/MIN	£12.97
QRCFFM14	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1/4" BSP, DN04, ISO 6.3, 400 BAR RATED, 12 L/MIN	£5.70
QRCFFF38	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 3/8" BSP, DN06, ISO10, 350 BAR RATED, 23 L/MIN	£16.96
QRCFFM38	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 3/8" BSP, DN06, ISO10, 350 BAR RATED, 23 L/MIN	£8.48
QRCFFF12-38	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1/2" BSP, DN06, ISO10, 350 BAR RATED, 23 L/MIN	£16.96
QRCFFM12-38	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1/2" BSP, DN06, ISO10, 350 BAR RATED, 23 L/MIN	£8.48
QRCFFF12	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1/2" BSP, DN08, ISO 12.5, 350 BAR RATED, 45 L/MIN	£21.75
QRCFFM12	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1/2" BSP, DN08, ISO 12.5, 350 BAR RATED, 45 L/MIN	£10.71
QRCFFF34-12	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 3/4" BSP, DN08, ISO 12.5, 350 BAR RATED, 45 L/MIN	£21.75
QRCFFM34-12	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 3/4" BSP, DN08, ISO 12.5, 350 BAR RATED, 45 L/MIN	£10.71
QRCFFF34	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 3/4" BSP, DN12, ISO 20, 350 BAR RATED, 100 L/MIN	£36.44
QRCFFM34	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 3/4" BSP, DN12, ISO 20, 350 BAR RATED, 100 L/MIN	£22.81
QRCFFF1-34	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1" BSP, DN12, ISO 20, 350 BAR RATED, 100 L/MIN	£36.44
QRCFFM1-34	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1" BSP, DN12, ISO 20, 350 BAR RATED, 100 L/MIN	£22.81
QRCFFF1	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1" BSP, DN16, ISO 25, 350 BAR RATED, 189 L/MIN	£53.58
QRCFFM1	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1" BSP, DN16, ISO 25, 350 BAR RATED, 189 L/MIN	£29.04
QRCFFF1620114	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1 1/4" BSP, DN16/DN20, ISO 25, 350 BAR RATED 189 L/MIN	£63.76
QRCFFM1620114	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1 1/4" BSP, DN16/DN20, ISO 25, 350 BAR RATED 189 L/MIN	£29.04
QRCFFF24112	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 1 1/2" BSP, DN24, ISO 40, 250 BAR, 379 L/MIN	£202.64
QRCFFM24112	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 1 1/2" BSP, DN24, ISO 40, 250 BAR, 379 L/MIN	£104.03
QRCFFF322	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING FEMALE 2" BSP, DN32, 250 BAR RATED, 758 L/MIN	£394.66
QRCFFM322	HYDRAULIC FLAT FACE QUICK RELEASE COUPLING MALE 2" BSP, DN32, 250 BAR RATED, 758 L/MIN	£209.29

## ACCESSORIES PRICE LIST

PRODUCT REFERENCE	DESCRIPTION	RRP
PPQRCFFF14	PLASTIC DUST CAP FOR 1/4"BSP, DN04 FLAT FACE FEMALE QRC	£1.02
PPQRCFFM14	PLASTIC DUST CAP FOR 1/4"BSP, DN04 FLAT FACE MALE QRC	£1.02
PPQRCFFF38	PLASTIC DUST CAP FOR 3/8"BSP, DN06 FLAT FACE FEMALE QRC AND 1/2"BSP, DN06 FLAT FACE FEMALE QRC	£1.10
PPQRCFFM38	PLASTIC DUST CAP FOR 3/8"BSP, DN06 FLAT FACE MALE QRC AND 1/2"BSP, DN06 FLAT FACE MALE QRC	£1.10
PPQRCFFF12	PLASTIC DUST CAP FOR 1/2"BSP, DN08 FLAT FACE FEMALE QRC AND 3/4"BSP, DN08 FLAT FACE FEMALE QRC	£1.27
PPQRCFFM12	PLASTIC DUST CAP FOR 1/2"BSP, DN08 FLAT FACE MALE QRC AND 3/4"BSP, DN08 FLAT FACE MALE QRC	£1.27
PPQRCFFF34	PLASTIC DUST CAP FOR 3/4"BSP, DN12 FLAT FACE FEMALE QRC AND 1"BSP, DN12 FLAT FACE FEMALE QRC	£1.48
PPQRCFFM34	PLASTIC DUST CAP FOR 3/4"BSP, DN12 FLAT FACE MALE QRC AND 1"BSP, DN12 FLAT FACE MALE QRC	£1.48
PPQRCFFF1	PLASTIC DUST CAP FOR 1"BSP, DN16 FLAT FACE FEMALE QRC	£2.25
PPQRCFFM1	PLASTIC DUST CAP FOR 1"BSP, DN16 FLAT FACE MALE QRC	£2.25



# FLOWFIT HYDRAULIC TRAILER BRAKE QUICK RELEASE COUPLINGS

Flowfit hydraulic trailer brake quick release couplings are mainly used in the agricultural sector for hydraulic braking systems.

Flowfit Hydraulic Trailer Brake Quick Release Couplings Interchange with:

- NFU 16-006/68
- DNP PFT
- Parker 5676

Please refer to the specification table below to ensure the correct size is selected.

A grey plastic cap for the male couplings and a steel parking plug for the female coupling are available to protect and stop dirt entering the quick releases and your hydraulic circuit.



## INSTRUCTIONS FOR USE

Prior to connecting ensure that the mating parts of the couplings are clean and free of dirt to avoid contamination of the hydraulic system.

To connect, pull the collar on the female coupling back and insert the male coupling as far as it will go. Release the collar to lock the couplings together.

To disconnect, pull the collar on the female coupling back and allow the male coupling to disengage.

## CAUTION

Under no circumstances should the couplings be connected or disconnected with pressure in the hydraulic system.

To reduce the risk of contamination, the use of protective plugs and caps on the couplings when they are disconnected is strongly recommended (available separately).

## SPECIFICATION

**Materials:** zinc-plated carbon steel body

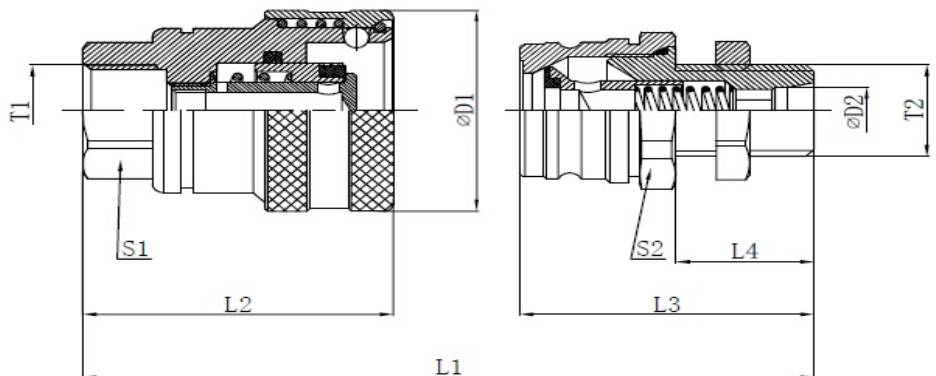
**Valve:** Flat valve type

**Back-up ring:** in pure Teflon

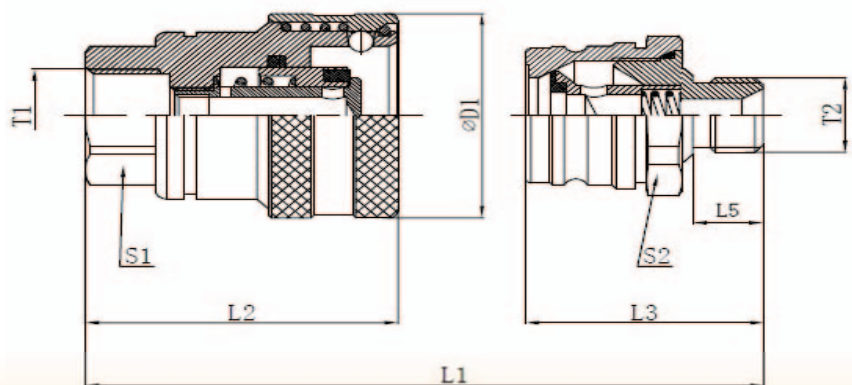
**Seals:** standard in nitrile NBR.

On request FKM, EPDM and VMQ seals

**Working temperature:** with standard seals -25°C+ 125°C



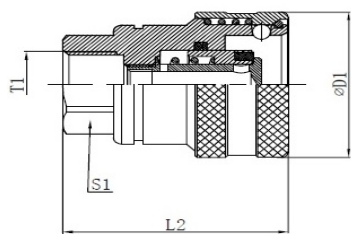
FEMALE TO MALE WITH BULKHEAD



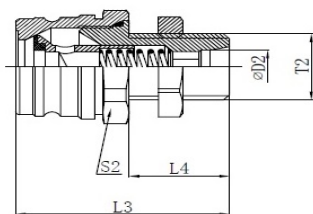
FEMALE TO MALE WITH MALE THREAD



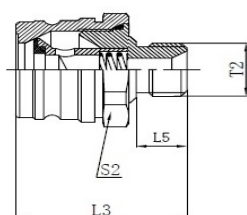
# FLOWFIT HYDRAULIC TRAILER BRAKE QUICK RELEASE COUPLINGS



FEMALE TRAILER BREAK QUICK RELEASE COUPLING						
DN	ISO	L2	D1	S1	T1	PRODUCT REFERENCE
08	12.5	56.0	44.0	27.0	3/8" BSP	QRCTBF38
					1/2" BSP	QRCTBF12
					M18X1.5	QRCTBFM18



MALE TRAILER BRAKE QUICK RELEASE COUPLING WITH BULKHEAD CONNECTION							
DN	ISO	L3	L4	S2	D2	T2	PRODUCT REFERENCE
8.0	12.5	51.0	23.0	32.0	12.0	M18X1.5	QRCTBBMM18
					15.0	M22X1.5	QRCTBBMM22
COMBINED LENGTH WITH FEMALE TRAILER BRAKE COUPLING (L1) = 91.5							



MALE TRAILER BRAKE QUICK RELEASE COUPLING WITH MALE THREAD						
DN	ISO	L3	L5	S2	T2	PRODUCT REFERENCE
8.0	12.5	48.0	15.0	32.0	1/2" BSP	QRCTBM12
COMBINED LENGTH WITH FEMALE TRAILER BRAKE COUPLING (L1) = 88.5						

## TECHNICAL DATA

NOMINAL SIZE		MAX. WORKING PRESSURE (BAR)	RATED FLOW (L/M)	MIN BURST PRESSURE			FLUID SPILLAGE (CC)
DN	ISO			MALE (BAR)	FEMALE (BAR)	COUPLED (BAR)	
08	12.5	150	24	900	620	930	0.05

## ACCESSORIES

DN	ISO	FEMALE DUST PLUG	MALE DUST CAP	MATERIAL
08	12.5		QRCTBMPVC	PLASTIC
		QRCTBFS		STEEL



## TRAILER BRAKE QUICK RELEASE COUPLING PRICE LIST

PRODUCT REFERENCE	DESCRIPTION	RRP
QRCTBF38	TRAILER BRAKE QRC FEMALE 3/8" BSP DN08, 150 BAR RATED 24 L/MIN	£7.84
QRCTBF12	TRAILER BRAKE QRC FEMALE 1/2" BSP DN08, 150 BAR RATED 24 L/MIN	£7.84
QRCTBFM18	TRAILER BRAKE QRC FEMALE M18X1.5 DN08, 150 BAR RATED 24 L/MIN	£7.84
QRCTBBMM18	TRAILER BRAKE QRC MALE M18X1.5 BULKHEAD DN08, 150 BAR RATED 24 L/MIN	£6.78
QRCTBBMM22	TRAILER BRAKE QRC MALE M22X1.5 BULKHEAD DN08, 150 BAR RATED 24 L/MIN	£6.78
QRCTBM12	TRAILER BRAKE QRC MALE 1/2" BSP DN08, 150 BAR RATED 24 L/MIN	£6.78

## ACCESSORIES PRICE LIST

PRODUCT REFERENCE	DESCRIPTION	RRP
QRCTBMPVC	TRAILER BRAKE PLASTIC MALE DUST CAP COVER DN08 (GREY)	£0.80
QRCTBFS	TRAILER BRAKE FEMALE STEEL DUST PLUG COUPLER COVER	£1.48