

EXPERIENCE THE GOODRIDGE
ADVANTAGE

G-LINK

Quick Disconnect Couplings



A WINNING TEAM
GOODRIDGE AND YOU

GOODRIDGE
FLUID TRANSFER SYSTEMS

PUSH THE LIMITS

G-LINK

Quick Disconnect Couplings

G-Link Quick Disconnect Couplings are manufactured only from high-strength certified materials. All parts are produced to meet the highest requirements, tolerances, and appearance. Each coupling is assembled and tested to strict specifications.

The G-Link couplings of the Advantage range are used in several successful motorsport teams.

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G-Link Bayonet-Type

The Quick Disconnect Couplings of the Advantage series, G-Link Bayonet-Type are compact and lightweight couplings, developed for hydraulic and pneumatic purposes in motorsport with operating pressure up to 200 bar.

The locking mechanism with bayonet is designed for one-hand operation, pushing and twisting the outer sleeve, with no separate actuation required for operation.

Both halves, coupler and nipple, are equipped with self-acting valves to stop fluid loss during uncoupling, as well as air inclusion during coupling.

G-LINK BAYONET-TYPE

		Dimensions			Details		
Nominal Size 03		Hex A/F	O/A Length	Coupled Length	Nominal Diam.	MWP	Weight in grams
GQD03BP03E	QDV Bayonet-Type Plug -03 JIC EPDM seal	13mm	34.7mm	38mm	3.5mm	200bar	7
GQD03BS03E	QDV Bayonet-Type Socket -03 JIC EPDM seal	13mm	42.5mm				
GQD03BP03F	QDV Bayonet-Type Plug -03 JIC FPM seal	13mm	34.7mm	38mm	3.5mm	200bar	7
GQD03BS03F	QDV Bayonet-Type Socket -03 JIC FPM seal	13mm	42.5mm				
GQD03BP04E	QDV Bayonet-Type Plug -04 JIC EPDM seal	13mm	36.2mm	38mm	3.5mm	200bar	7
GQD03BS04E	QDV Bayonet-Type Socket -04 JIC EPDM seal	13mm	44.05mm				
GQD03BP04F	QDV Bayonet-Type Plug -04 JIC FPM seal	13mm	36.2mm	38mm	3.5mm	200bar	7
GQD03BS04F	QDV Bayonet-Type Socket -04 JIC FPM seal	13mm	44.05mm				
Nominal Size 05							
GQD05BP04F	QDV Bayonet-Type Plug -04 JIC FPM seal	17mm	39.6mm	43mm	5.5mm	150bar	13
GQD05BS04F	QDV Bayonet-Type Socket -04 JIC FPM seal	17mm	47.5mm				
GQD05BP04E	QDV Bayonet-Type Plug -04 JIC EPDM seal	17mm	39.6mm	43mm	5.5mm	150bar	13
GQD05BS04E	QDV Bayonet-Type Socket -04 JIC EPDM seal	17mm	47.5mm				
GQD05BP06F	QDV Bayonet-Type Plug -06 JIC FPM seal	17mm	39.6mm	43mm	5.5mm	150bar	14
GQD05BS06F	QDV Bayonet-Type Socket -06 JIC FPM seal	17mm	47.5mm				
Nominal Size 08							
GQD08BP06F	QDV Bayonet-Type Plug -06 JIC FPM seal	24mm	49.1mm	58mm	8.5mm	100bar	26
GQD08BS06F	QDV Bayonet-Type Socket -06 JIC FPM seal	24mm	58.6mm				
GQD08BP08F	QDV Bayonet-Type Plug -08 JIC FPM seal	24mm	51.6mm	58mm	8.5mm	100bar	30
GQD08BS08F	QDV Bayonet-Type Socket -08 JIC FPM seal	24mm	61.1mm				



G-Link Pull-Type

The Quick Disconnect Couplings of the Advantage series, G-Link Pull-Type, are compact and lightweight couplings, developed for hydraulic and pneumatic purposes in motorsport with operating pressure up to 200 bar.

The locking mechanism is designed for one-hand operation; no separate actuation of the retaining sleeve is required for operation. To verify the correct connection, the female half is equipped with a green indicator ring. This indicator ring can, alternatively, be replaced by a retaining clamp.

This can only be attached when the halves are coupled and eliminates the risk of unintentional uncoupling.

Additionally the whole operating mechanism is O-ring sealed to achieve particular suitability for rough conditions and to reduce environmental effects.

Both halves, coupler and nipple, are equipped with self-acting valves to stop fluid loss during uncoupling, as well as air inclusion, during coupling.

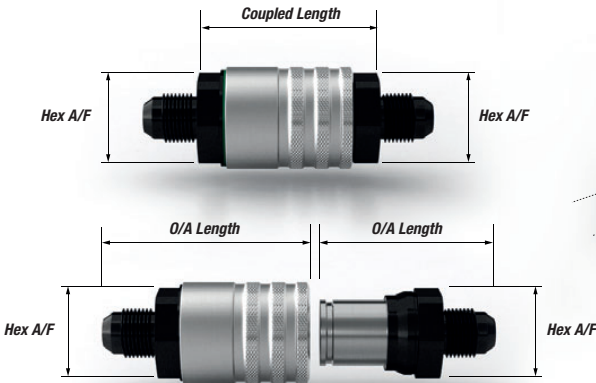
G-LINK PULL-TYPE

		Dimensions		Details			
Nominal Size 05		Hex A/F	O/A Length	Coupled Length	Nominal Diam.	MWP	Weight in grams
GQD05PP04F	QDV Pull-Type Plug -04 JIC FPM seal	22mm	38.1mm	43.6mm	4.5mm	200bar	20
GQD05PP04BF	QDV Pull-Type Plug -04 JIC Bulkhead FPM seal	22mm	46.1mm		4.5mm	200bar	22
GQD05PS04F	QDV Pull-Type Socket -04 JIC FPM seal	17mm	45.5mm	43.6mm	4.5mm	200bar	32
GQD05PS04LF	QDV Pull-Type Socket -04 JIC Lanyard FPM seal	17mm	45.5mm		4.5mm	200bar	36
GQD05PP06F	QDV Pull-Type Plug -06 JIC FPM seal	22mm	38.1mm	43.6mm	4.5mm	200bar	21
GQD05PP06BF	QDV Pull-Type Plug -06 JIC Bulkhead FPM seal	22mm	49.1mm		4.5mm	200bar	24
GQD05PS06F	QDV Pull-Type Socket -06 JIC FPM seal	17mm	45.5mm	43.6mm	4.5mm	200bar	33
GQD05PS06LF	QDV Pull-Type Socket -06 JIC Lanyard FPM seal	17mm	45.5mm		4.5mm	200bar	37
Nominal Size 08							
GQD08PP06F	QDV Pull-Type Plug -06 JIC FPM seal	27mm	42.6mm	52.6mm	8.0mm	150bar	36
GQD08PP06BF	QDV Pull-Type Plug -06 JIC Bulkhead FPM seal	27mm	53.6mm		8.0mm	150bar	39
GQD08PS06F	QDV Pull-Type Socket -06 JIC FPM seal	24mm	52mm	52.6mm	8.0mm	150bar	56
GQD08PS06LF	QDV Pull-Type Socket -06 JIC Lanyard FPM seal	24mm	52mm		8.0mm	150bar	60
GQD08PP08F	QDV Pull-Type Plug -08 JIC FPM seal	27mm	45.1mm	52.6mm	8.0mm	150bar	38
GQD08PP08BF	QDV Pull-Type Plug -08 JIC Bulkhead FPM seal	27mm	58.6mm		8.0mm	150bar	46
GQD08PS08F	QDV Pull-Type Socket -08 JIC FPM seal	24mm	54.5mm	52.6mm	8.0mm	150bar	59
GQD08PS08LF	QDV Pull-Type Socket -08 JIC Lanyard FPM seal	24mm	54.5mm		8.0mm	150bar	64
GQDPC08	QDV Pull-Type Cap for Plug Nominal Size 08						
Nominal Size 14							
GQD14PP12F	QDV Pull-Type Plug -12 JIC FPM seal	36mm	56.1mm	64.6mm	14.0mm	100bar	84
GQD14PP12BF	QDV Pull-Type Plug -12 JIC Bulkhead FPM seal	36mm	72.1mm		14.0mm	100bar	106
GQD14PPL	Adaptor-Plate for Panel Mounting (optional)						
GQD14PS12F	QDV Pull-Type Socket -12 JIC FPM seal	32mm	71.1mm	64.6mm	14.0mm	100bar	140

Optionally the dry break coupling can be used as a security shut-off device, e.g. for fuel lines. For this purpose one half of the coupling is equipped with a lanyard to separate the halves in case of an accident.

The unique locking mechanism design allows activation of separation by pulling the male half. So it is possible to install two inversely arranged couplings to avoid the risk of mistakes.

All body sizes of the G-Link Pull-Type series Quick Disconnect Couplings are also available in a non-locking version, designed for the use in refill units. Please ask for additional information on couplings and refill units.



Technical information

As a manufacturer of hydraulic components for motorsport purposes Goodridge is heavily engaged in development and manufacturing of various fuel system elements, such as

- Quick Disconnect Couplings
- Check Valves
- Fuel Cell Ventilation Valves
- Filters

FKM (Viton) seals, in use in fuel systems for many years, don't have the chemical resistance for usage with current fuel mixtures, where ethanol or methanol are incorporated.

Goodridge found the perfect solution for this challenge: a compound also resistant to all currently used fuel blends, e.g.

- Adblue (additive for scr; selective catalytic reduction)
- B5 (Diesel Blend; Containing 5% Biodiesel)
- B10
- B20 (Biodiesel)
- B100 (Biodiesel)
- E85 (gasoline blend; containing 85% Ethanol)
- Vegetable Oil
- Ethanol

Additionally this applied compound has at least the same resistance to temperature and mechanical stress as the standard FKM compound and is even better qualified for lower temperatures than FFKM compounds e.g. Kalrez.

The consequence for motorsport applications is that the complete range can be covered with only two different sealing materials. This makes choice easier and stock available.

In the future, all our fuel system components mentioned will be equipped with the new O-rings and marked with FPM "B" for differentiation from standard FKM compound.

Seal materials, choice

The standard sealing material is a modified fluorinated rubber compound (FPM, FKM, Viton), which is identified with the suffix "B". This new material is only available in G-Link Quick Disconnect Couplings and allows the use for fuel-alcohol mixtures, pure ethanol and vegetable oil.

Other materials as nitrile rubber (NBR), Ethylene-Propylene-Dien-rubber (EPDM) are available on request.

The operating temperatures are the following, dependent upon sealing material:

Material	Chemical description	Operating temperatures	Representative fluids
FPM B	Fluorcarbon, mod.	-20°C to +200°C	Fuel, ethanol, vegetable oil
NBR	Nitril-Butadien	-25°C to +120°C	Oils, mineral greases
EPDM	Ethylen-Propylen-Dien	-50°C to +150°C	Brake fluids

Each coupling half is laser-etched with Part-Nr. and sealing material (see part number guide).

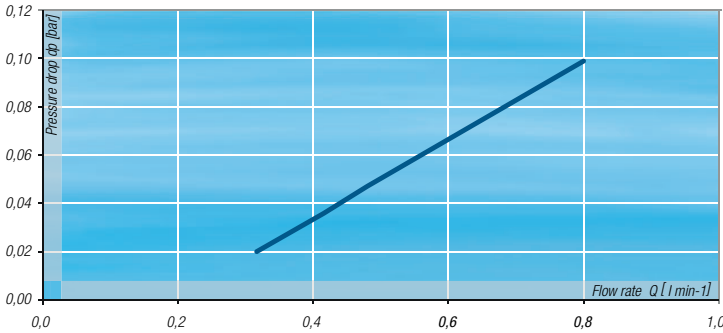
Hydraulic ports

The hydraulic connection is unioned by a male thread with a conical seal of 37° according to MS 33656 (standard) or MS 33657 (bulkhead version).

Size	Nominal size	Threads
05	5mm	7/16-20 UNF or 9/16-18 UNF
08	8mm	9/16-18 UNF or 3/4 -16 UNF
14	14mm	7/8-14 UNF or 1-1/16-12 UNF

Of course any other connector style can be produced upon request.

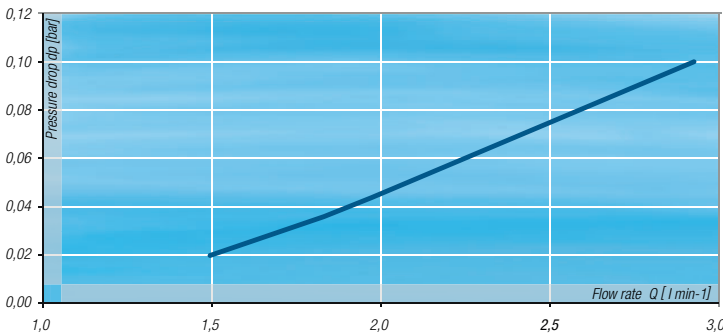
G-Link Bayonet-Type - Flow Data



Pressure drop - Flow rate G-Link **GQD03B03E**

— G-Link **Bayonet 03AN3**

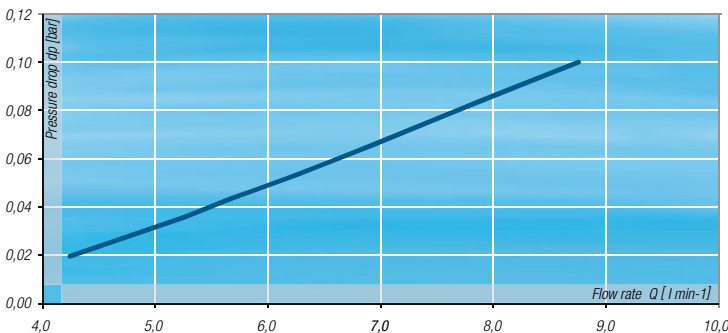
- PRODUCT**
QDV G-Link Bayonet
- SIZE - THREAD**
03 - AN3
- COUPLER**
GQD03BS03E
- NIPPLE:**
GQD03BP03E
- FLOW DIRECTION**
Coupler > Nipple
- TEST FLUID**
Water
- FLOW METER**
PE 10 I - Kern 150
- PRESSURE GAUGE**
Suku NG160, Kl. 0,6 n. DIN EN 837



Pressure drop - Flow rate G-Link **GQD05B04F**

— G-Link **Bayonet 05AN4**

- PRODUCT**
QDV G-Link Bayonet
- SIZE - THREAD**
05 - AN4
- COUPLER**
GQD05BS04F
- NIPPLE:**
GQD05BP04F
- FLOW DIRECTION**
Coupler > Nipple
- TEST FLUID**
Water
- FLOW METER**
PE 10 I - Kern 150
- PRESSURE GAUGE**
Suku NG160, Kl. 0,6 n. DIN EN 837

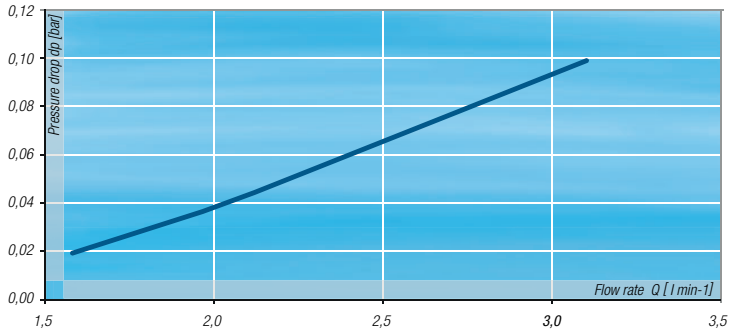


Pressure drop - Flow rate G-Link **GQD08B06F**

— G-Link **Bayonet 08AN6**

- PRODUCT**
QDV G-Link Bayonet
- SIZE - THREAD**
08 - AN6
- COUPLER**
GQD08BS06F
- NIPPLE:**
GQD08BP06F
- FLOW DIRECTION**
Coupler > Nipple
- TEST FLUID**
Water
- FLOW METER**
PE 10 I - Kern 150
- PRESSURE GAUGE**
Suku NG160, Kl. 0,6 n. DIN EN 837

G-Link Pull-Type - Flow Data



Pressure drop - Flow rate G-Link QGD05P04F

— G-Link Pull Type 05AN4

PRODUCT

QDV G-Link Pull Type

SIZE - THREAD

05 - AN4

COUPLER

QGD05PS04F

NIPPLE:

QGD05PP04F

FLOW DIRECTION

Coupler > Nipple

TEST FLUID

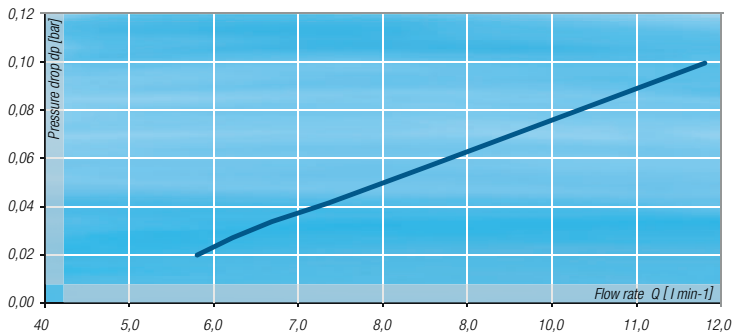
Water

FLOW METER

PE 10 I - Kern 150

PRESSURE GAUGE

Suku NG160, Kl. 0,6 n. DIN EN 837



Pressure drop - Flow rate G-Link QGD08P06F

— G-Link Pull Type 08AN6

PRODUCT

QDV G-Link Pull Type

SIZE - THREAD

08 - AN6

COUPLER

QGD08PS06F

NIPPLE:

QGD08PP06F

FLOW DIRECTION

Coupler > Nipple

TEST FLUID

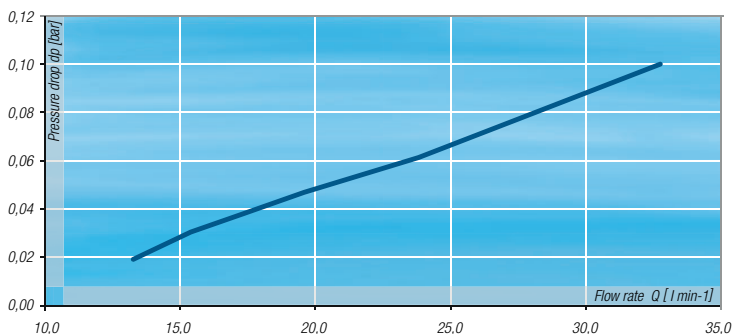
Water

FLOW METER

PE 10 I - Kern 150

PRESSURE GAUGE

Suku NG160, Kl. 0,6 n. DIN EN 837



Pressure drop - Flow rate G-Link QGD14P12F

— G-Link Pull Type 14 AN12

PRODUCT

QDV G-Link Pull Type

SIZE - THREAD

14 - AN12

COUPLER

QGD14PS12F

NIPPLE:

QGD14PP12F

FLOW DIRECTION

Coupler > Nipple

TEST FLUID

Water

FLOW METER

PE 10 I - Kern 150

PRESSURE GAUGE

Suku NG160, Kl. 0,6 n. DIN EN 837

G-LINK

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