

H5000 Series

(Steel)

Fluid transfer & Hydraulic application



Danfoss' **Gromelle** H5000 Series steel quick disconnect coupling is a pull to connect double shut-off coupling. Featuring the original profile, it remains as the series users prefer when it comes to severe hydraulic applications such as high pressure, pressure impulses, heavy mechanical loads and frequent connection and disconnection cycles. The unique sleeve lock option offers a reliable solution and benefit to the end user when safety is a concern.

Product Features

- Proprietary profile
 - Pull-to-connect with double shut-off valving
 - Ball-locking
 - Optional safety sleeve lock prevents accidental disconnections
 - Optional dust caps and plugs (made of anodized aluminum)
 - Pressure performance
 - Standard body material: Zinc trivalent steel
 - Standard seal material: NBR, FKM, EPDM
 - The heat treatment of the plug and use of high strength steel for the socket sleeve provide superior mechanical and hydraulic performance
- The design of the valve gives the coupling increased robustness when disconnected.

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food Processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General Hydraulic Applications

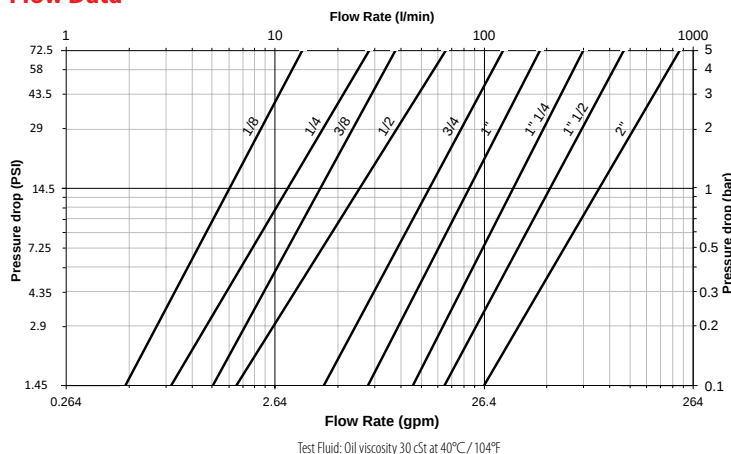
Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure* Non hazardous liquids & gases in Group 2		Hazardous liquids & gases in Group 1		Rated Flow**		Fluid Loss ml-cc.
		(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	
1/8	3.8	1,000	14,500	1,000	14,500	6.1	1.61	0.4
1/4	5.7	700	10,150	700	10,150	11.6	3.06	1
3/8	7.6	600	8,700	600	8,700	16.7	4.41	2
1/2	10.3	500	7,250	500	7,250	25.5	6.74	2.5
3/4	14.2	400	5,800	400	5,800	55	14.53	5.5
1	16.5	300	4,350	300	4,350	87	22.98	9
1 1/4	20.5	200	2,900	200	2,900	140	36.98	23
1 1/2	25.8	150	2,175	38	550	208	54.95	36
2	34.7	100	1,450	28	405	357	94.3	70

* For pulsating pressures when disconnected apply a multiplier of 0.5

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C / +100°C / -4°F / +212°F
FKM	-20°C / +200°C / -4°F / +392°F
EPDM (Ethylene-Propylene)**	-40°C / +150°C / -40°F / +302°F

* For reference only, based on Guyson recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Guyson technical sales department for further information on fluid compatibility.



GUYSON INTERNATIONAL LIMITED **HOSE & COUPLINGS DIVISION**

Southview Business Park, Guiseley, Leeds LS20 9PR

Tel: 01943 870044 e-mail: leeds@guyson.co.uk web: www.guyson.co.uk



H5000 Series (Steel)

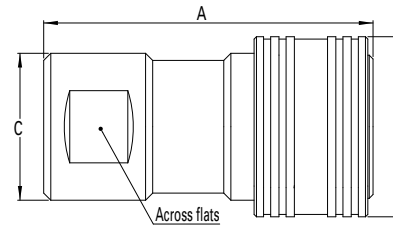


Figure 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Dimensions								Weight		
NBR*	FKM	EPDM	(in)	(mm)	NPT	BSPP	Metric	Fig.	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
HA0500100	HA05001V0	HA05001E0	1/8	3.8	-	1/8-28	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0520100	HA05201V0	HA05201E0	1/8	3.8	1/8-27	-	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0530100	HA05301V0	HA05301E0	1/8	3.8	-	-	M10x100	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0501100	HA05011V0	HA05011E0	1/4	5.7	-	1/4-19	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0521100	HA05211V0	HA05211E0	1/4	5.7	1/4-18	-	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0531100	HA05311V0	HA05311E0	1/4	5.7	-	-	M14x150	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0502100	HA05021V0	HA05021E0	3/8	7.6	-	3/8-19	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0522100	HA05221V0	HA05221E0	3/8	7.6	3/8-18	-	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0532100	HA05321V0	HA05321E0	3/8	7.6	-	-	M18x150	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0503100	HA05031V0	HA05031E0	1/2	10.3	-	1/2-14	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0523100	HA05231V0	HA05231E0	1/2	10.3	1/2-14	-	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0533100	HA05331V0	HA05331E0	1/2	10.3	-	-	M22x150	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0504100	HA05041V0	HA05041E0	3/4	14.2	-	3/4-14	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0524100	HA05241V0	HA05241E0	3/4	14.2	3/4-14	-	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0534100	HA05341V0	HA05341E0	3/4	14.2	-	-	M27x150	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0505100	HA05051V0	HA05051E0	1	16.5	-	1-11	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HA0525100	HA05251V0	HA05251E0	1	16.5	1-11½	-	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
-	HA05061V0	HA05061E0	1¼	20.5	-	1¼-11	-	1	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2,165
-	HA05071V0	HA05071E0	1½	25.8	-	1½-11	-	1	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3,500
-	HA05091V0	HA05091E0	2	34.7	-	2-11	-	1	6.69	3.82	3.35	2.95	170	97	85	75	10.67	4,840

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.

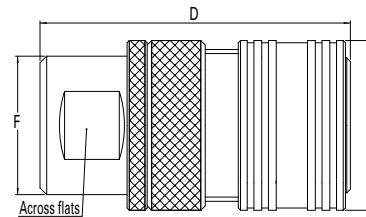


Figure 2

Sockets with Sleeve Lock (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Dimensions								Weight		
NBR*	FKM	EPDM	(in)	(mm)	NPT	BSPP	Metric	Fig.	D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams
HA0500300	HA05003V0	HA05003E0	1/8	3.8	-	1/8-28	-	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0520300	HA05203V0	HA05203E0	1/8	3.8	1/8-27	-	-	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0530300	HA05303V0	HA05303E0	1/8	3.8	-	-	M10x100	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0501300	HA05013V0	HA05013E0	1/4	5.7	-	1/4-19	-	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0521300	HA05213V0	HA05213E0	1/4	5.7	1/4-18	-	-	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0531300	HA05313V0	HA05313E0	1/4	5.7	-	-	M14x150	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0502300	HA05023V0	HA05023E0	3/8	7.6	-	3/8-19	-	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0522300	HA05223V0	HA05223E0	3/8	7.6	3/8-18	-	-	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0532300	HA05323V0	HA05323E0	3/8	7.6	-	-	M18x150	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0503300	HA05033V0	HA05033E0	1/2	10.3	-	1/2-14	-	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0523300	HA05233V0	HA05233E0	1/2	10.3	1/2-14	-	-	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0533300	HA05333V0	HA05333E0	1/2	10.3	-	-	M22x150	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0504300	HA05043V0	HA05043E0	3/4	14.2	-	3/4-14	-	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0524300	HA05243V0	HA05243E0	3/4	14.2	3/4-14	-	-	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0534300	HA05343V0	HA05343E0	3/4	14.2	-	-	M27x150	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0505300	HA05053V0	HA05053E0	1	16.5	-	1-11	-	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
HA0525300	HA05253V0	HA05253E0	1	16.5	1-11 1/2	-	-	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
-	HA05063V0	HA05063E0	1 1/4	20.5	-	1 1/4-11	-	2	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2,230
-	HA05073V0	HA05073E0	1 1/2	25.8	-	1 1/2-11	-	2	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3,585
-	HA05093V0	HA05093E0	2	34.7	-	2-11	-	2	6.69	3.82	3.35	2.95	170	97	85	75	10.67	5,658

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

H5000 Series (Steel)

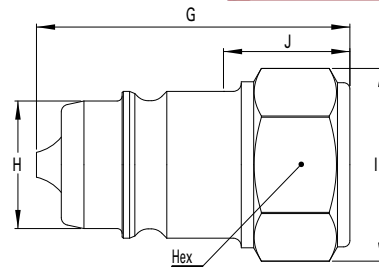


Figure 3

Plugs (Male)

Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size** (Female)			Fig.	Dimensions										Weight	
NBR*	FKM	EPDM			NPT	BSPP	Metric		G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HA0500200	HA05002V0	HA05002E0	1/8	3.8	-	1/8-28	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0520200	HA05202V0	HA05202E0	1/8	3.8	1/8-27	-	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0530200	HA05302V0	HA05302E0	1/8	3.8	-	-	M10x100	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0501200	HA05012V0	HA05012E0	1/4	5.7	-	1/4-19	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0521200	HA05212V0	HA05212E0	1/4	5.7	1/4-18	-	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0531200	HA05312V0	HA05312E0	1/4	5.7	-	-	M14x150	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0502200	HA05022V0	HA05022E0	3/8	7.6	-	3/8-19	-	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0522200	HA05222V0	HA05222E0	3/8	7.6	3/8-18	-	-	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0532200	HA05322V0	HA05322E0	3/8	7.6	-	-	M18x150	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0503200	HA05032V0	HA05032E0	1/2	10.3	-	1/2-14	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0523200	HA05232V0	HA05232E0	1/2	10.3	1/2-14	-	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0533200	HA05332V0	HA05332E0	1/2	10.3	-	-	M22x150	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0504200	HA05042V0	HA05042E0	3/4	14.2	-	3/4-14	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0524200	HA05242V0	HA05242E0	3/4	14.2	3/4-14	-	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0534200	HA05342V0	HA05342E0	3/4	14.2	-	-	M27x150	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0505200	HA05052V0	HA05052E0	1	16.5	-	1-11	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HA0525200	HA05252V0	HA05252E0	1	16.5	1-11 1/2	-	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
-	HA05062V0	HA05062E0	1 1/4	20.5	-	1 1/4-11	-	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	1.98	900
-	HA05072V0	HA05072E0	1 1/2	25.8	-	1 1/2-11	-	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.30	1500
-	HA05092V0	HA05092E0	2	34.7	-	2-11	-	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.06	1840

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version ; add dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version.

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part Number Anodized Aluminum	Plug Dust Cap Part Number Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body Size (in)		Seal & Back-up Ring Kit*					
		NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00		50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00		50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00		50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00		50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00		50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00		50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	HG 05061 00		15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	HG 05071 00		15 O-rings + 15 Backup rings	-	-	-	-
2	HG 05091 00		15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits



GUYSON INTERNATIONAL LIMITED **HOSE & COUPLINGS DIVISION**
 Southview Business Park, Guiseley, Leeds LS20 9PR
 Tel: 01943 870044 e-mail: leeds@guyson.co.uk web: www.guyson.co.uk



H5000 Series (Brass)

Fluid transfer & Hydraulic application



Product Features

- Proprietary profile
- Pull-to-connect with double shut-off valving
- Ball-locking
- Pressure performance
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminum)
- Standard body material: Nickel-plated brass
- Standard seal material: NBR, FKM, EPDM

European Pressure Equipment Directive

All couplings are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous).

Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food Processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General Hydraulic Applications

Danfoss' **Gromelle** H5000 Series brass quick disconnect coupling is a pull to connect double shut-off coupling. It is a general purpose industrial quick disconnect coupling with the original profile. Mainly used in fluid transfer applications where stainless steel is not a requirement, it offers a good alternative for corrosion resistance.

Physical Characteristics

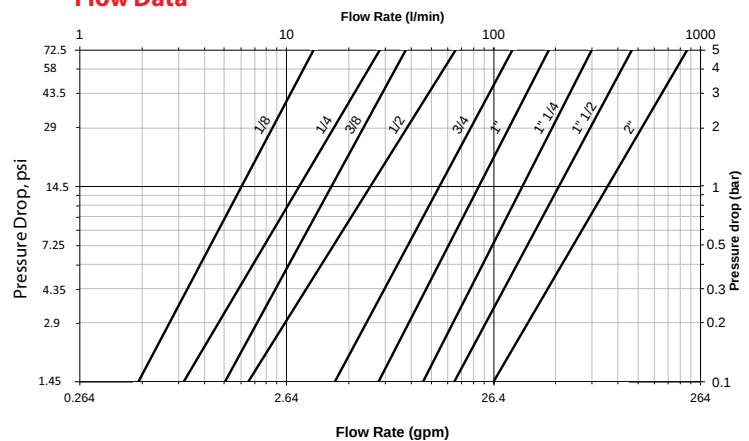
Body Size	Nominal Flow Diameter*	Max. Operating Pressure**		Non hazardous Gases in Group 2		Rated Flow***		Fluid Loss
		Hazardous and Non hazardous liquids in Group 1&2						
(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml-cc.
1/8	3.8	300	4,350	300	4,350	6.1	1.61	0.4
1/4	5.7	230	3,335	230	3,335	11.6	3.06	1
3/8	7.6	175	2,535	175	2,535	16.7	4.41	2
1/2	10.3	150	2,175	150	2,175	25.5	6.74	2.5
3/4	14.2	125	1,810	125	1,810	55	14.53	5.5
1	16.5	100	1,450	100	1,450	87	22.98	9
1 1/4	20.5	70	1,015	70	1,015	140	36.98	23
1 1/2	25.8	50	725	50	725	208	54.95	36
2	34.7	40	290	28	406	357	94.3	70

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (PED 2014/68/EU)

** For pulsating pressures when disconnected apply a multiplier of 0.5

*** Indicated values refer to a 1 bar/14.5 psi pressure drop.

Flow Data



Test Fluid: Oil viscosity 30 cSt at 40°C / 104°F

Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

* For reference only, based on Guyson recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Guyson technical sales department for further information on fluid compatibility.

H5000 Series

(Brass)

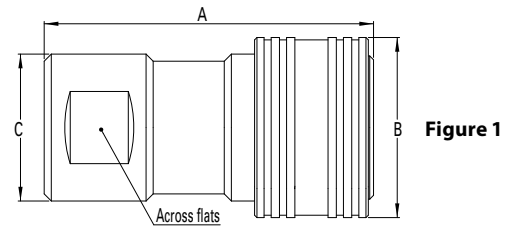


Figure 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions										Weight	
NBR	FKM	EPDM	(in)	(mm)	BSPP	Fig.	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams	
HL0500100	HL05001V0	HL05001E0	⅛	3.8	⅛-28	1	1.65	0.94	0.83	0.63	42	24	21	16	0.21	97	
HL0501100	HL05011V0	HL05011E0	¼	5.7	¼-19	1	1.97	1.10	0.94	0.75	50	28	24	19	0.30	134	
HL0502100	HL05021V0	HL05021E0	⅜	7.6	⅜-19	1	2.32	1.34	1.10	0.90	59	34	28	23	0.48	217	
HL0503100	HL05031V0	HL05031E0	½	10.3	½-14	1	2.71	1.50	1.22	1.06	69	38	31	27	0.55	249	
HL0504100	HL05041V0	HL05041E0	¾	14.2	¾-14	1	3.50	1.89	1.57	1.38	89	48	40	35	1.40	635	
HL0505100	HL05051V0	HL05051E0	1	16.5	1-11	1	3.89	2.05	1.77	1.61	99	52	45	41	1.75	792	
HL0506100	HL05061V0	HL05061E0	1¼	20.5	1¼-11	1	5.20	2.95	2.44	2.16	132	75	62	55	5.25	2,382	
HL0507100	HL05071V0	HL05071E0	1½	25.8	1½-11	1	5.90	3.35	2.95	2.56	150	85	75	65	8.49	3,850	
HL0509100	HL05091V0	HL05091E0	2	34.7	2-11	1	6.69	3.82	3.35	2.95	170	97	85	75	11.74	5,324	

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.

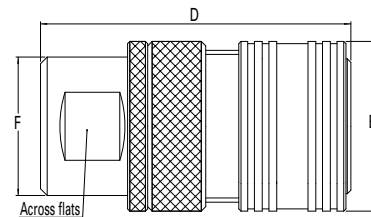


Figure 2

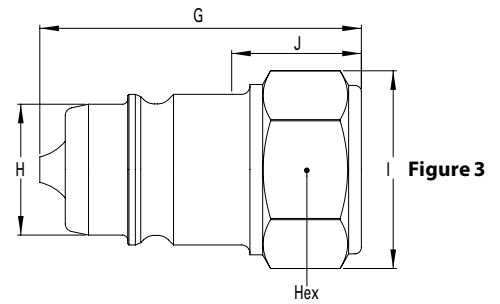
Sockets with Sleeve Lock (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions										Weight	
NBR	FKM	EPDM	(in)	(mm)	BSP	Fig.	D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams	
HL0500300	HL05003V0	HL05003E0	⅜	3.8	⅜-28	2	1.65	0.94	0.83	0.63	42	24	21	16	0.22	100	
HL0501300	HL05013V0	HL05013E0	¼	5.7	¼-19	2	1.97	1.10	0.94	0.75	50	28	24	19	0.33	148	
HL0502300	HL05023V0	HL05023E0	⅜	7.6	⅜-19	2	2.32	1.34	1.10	0.90	59	34	28	23	0.55	248	
HL0503300	HL05033V0	HL05033E0	½	10.3	½-14	2	2.71	1.50	1.22	1.06	69	38	31	27	0.75	341	
HL0504300	HL05043V0	HL05043E0	¾	14.2	¾-14	2	3.50	1.89	1.57	1.38	89	48	40	35	1.61	732	
HL0505300	HL05053V0	HL05053E0	1	16.5	1-11	2	3.89	2.05	1.77	1.61	99	52	45	41	1.97	894	
HL0506300	HL05063V0	HL05063E0	1¼	20.5	1¼-11	2	5.20	2.95	2.44	2.16	132	75	62	55	5.41	2,453	
HL0507300	HL05073V0	HL05073E0	1½	25.8	1½-11	2	5.90	3.35	2.95	2.56	150	85	75	65	8.69	3,944	
HL0509300	HL05093V0	HL05093E0	2	34.7	2-11	2	6.69	3.82	3.35	2.95	170	97	85	75	13.72	6,224	

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

H5000 Series (Brass)



Plugs (Male)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)	Dimensions											Weight	
NBR*	FKM	EPDM	(in)	(mm)	BSPP	Fig.	G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HL0500200	HL05002V0	HL05002E0	1/8	3.8	1/8-28	3	1.1	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.06	26
HL0501200	HL05012V0	HL05012E0	1/4	5.7	1/4-19	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.09	41
HL0502200	HL05022V0	HL05022E0	3/8	7.6	3/8-19	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.17	77
HL0503200	HL05032V0	HL05032E0	1/2	10.3	1/2-14	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.22	101
HL0504200	HL05042V0	HL05042E0	3/4	14.2	3/4-14	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.53	239
HL0505200	HL05052V0	HL05052E0	1	16.5	1-11	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.70	316
-	HL05062V0	HL05062E0	1 1/4	20.5	1 1/4-11	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	2.18	990
-	HL05072V0	HL05072E0	1 1/2	25.8	1 1/2-11	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.64	1650
-	HL05092V0	HL05092E0	2	34.7	2-11	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.46	2024

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version; add dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part Number	Plug Dust Cap Part Number
(in)	Anodized Aluminum	Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body Size	Seal & Back-up Ring Kit*					
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00	50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00	50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00	50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00	50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00	50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	HG 05061 00	15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	HG 05071 00	15 O-rings + 15 Backup rings	-	-	-	-
2	HG 05091 00	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits



GUYSON INTERNATIONAL LIMITED **HOSE & COUPLINGS DIVISION**
Southview Business Park, Guiseley, Leeds LS20 9PR
Tel: 01943 870044 e-mail: leeds@guyson.co.uk web: www.guyson.co.uk



H5000 Series (Stainless Steel)

Fluid transfer & Hydraulic application



Danfoss' **Gromelle** H5000 Series stainless steel quick disconnect coupling is a pull to connect double shut-off coupling. It is a general purpose industrial coupling with the original profile. It is mainly used in fluid transfer applications and provides excellent corrosion resistance.

Product Features

- Proprietary profile
- Pull-to-connect with double shut-off valving
- Ball-locking
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminum)
- Pressure performance
- Standard body material: AISI 316L Stainless steel
- Standard seal material: FKM, EPDM

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European Pressure Equipment Directive PED 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

Physical Characteristics

Body Size	Nominal Flow Diameter	Max. Operating Pressure*				Rated Flow**		Fluid Loss
		Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1				
(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml-cc.
1/8	3.8	300	4,350	300	4,350	6.1	1.61	0.4
1/4	5.7	230	3,335	230	3,335	11.6	3.06	1
3/8	7.6	175	2,535	175	2,535	16.7	4.41	2
1/2	10.3	150	2,175	150	2,175	25.5	6.74	2.5
3/4	14.2	125	1,810	125	1,810	55	14.53	5.5
1	16.5	100	1,450	100	1,450	87	22.98	9
1 1/4	20.5	100	1,450	100	1,450	140	36.98	23
1 1/2	25.8	75	1,085	28	550	208	54.95	36
2	34.7	40	580	38	405	357	94.30	70

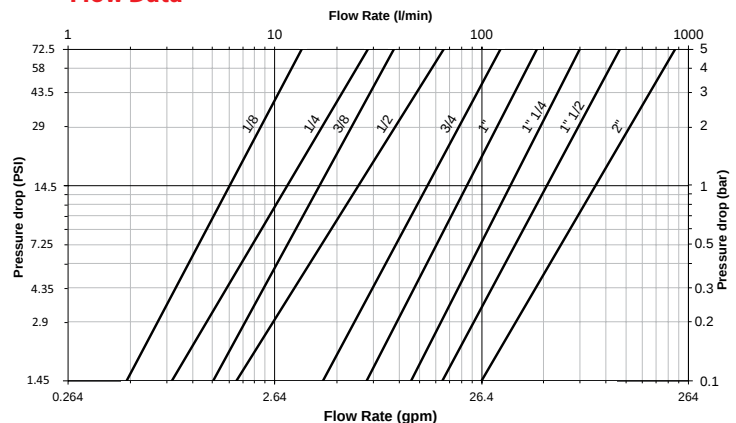
* For pulsating pressures when disconnected apply a multiplier of 0.5

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food Processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General Hydraulic Applications

Flow Data



Test Fluid: Oil viscosity 30 cSt at 40°C/104°F

Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
FKM	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

* For reference only, based on Guyson recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Guyson technical sales department for further information on fluid compatibility.



GUYSON INTERNATIONAL LIMITED **HOSE & COUPLINGS DIVISION**

Southview Business Park, Guiseley, Leeds LS20 9PR

Tel: 01943 870044 e-mail: leeds@guyson.co.uk web: www.guyson.co.uk



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H5000 Series

(Stainless Steel)

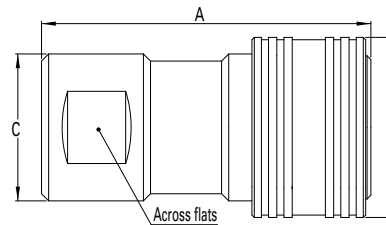


Figure 1

Sockets (Female)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)		Dimensions									Weight	
FKM	EPDM	(in)	(mm)	NPT	BSPP	Fig.	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
HZ05001V0	HZ05001E0	⅛	3.8	-	⅛-28	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HZ05201V0	HZ05201E0	⅛	3.8	⅛-27	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HZ05011V0	HZ05011E0	¼	5.7	-	¼-19	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HZ05211V0	HZ05211E0	¼	5.7	¼-18	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HZ05021V0	HZ05021E0	⅜	7.6	-	⅜-19	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HZ05221V0	HZ05221E0	⅜	7.6	⅜-18	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HZ05031V0	HZ05031E0	½	10.3	-	½-14	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HZ05231V0	HZ05231E0	½	10.3	½-14	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HZ05041V0	HZ05041E0	¾	14.2	-	¾-14	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HZ05241V0	HZ05241E0	¾	14.2	¾-14	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HZ05051V0	HZ05051E0	1	16.5	-	1-11	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HZ05251V0	HZ05251E0	1	16.5	1-11½	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HZ05061V0	HZ05061E0	1¼	20.5	-	1¼-11	1	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2,165
HZ05071V0	HZ05071E0	1½	25.8	-	1½-11	1	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3,500
HZ05091V0	HZ05091E0	2	34.7	-	2-11	1	6.69	3.82	3.35	2.95	170	97	85	75	10.67	4,840

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.

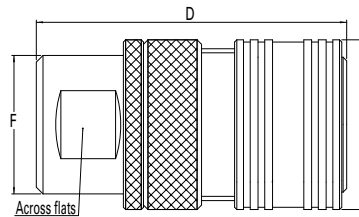


Figure 2

Sockets with Sleeve Lock (Female)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)		Dimensions								Weight	
FKM	EPDM	(in)	(mm)	BSPP	Fig.	D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams
HZ05003V0	HZ05003E0	1/8	3.8	1/8-28	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HZ05013V0	HZ05013E0	1/4	5.7	1/4-19	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HZ05023V0	HZ05023E0	3/4	7.6	3/8-19	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HZ05033V0	HZ05033E0	1	10.3	1/2-14	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HZ05043V0	HZ05043E0	1 1/2	14.2	3/4-14	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HZ05053V0	HZ05053E0	2	16.5	1-11	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
HZ05063V0	HZ05063E0	2 1/2	20.5	1 1/4-11	2	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2,230
HZ05073V0	HZ05073E0	2 1/2	25.8	1 1/2-11	2	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3,585
HZ05093V0	HZ05093E0	3	34.7	2-11	2	6.69	3.82	3.35	2.95	170	97	85	75	10.67	5,658

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

H5000 Series (Stainless Steel)

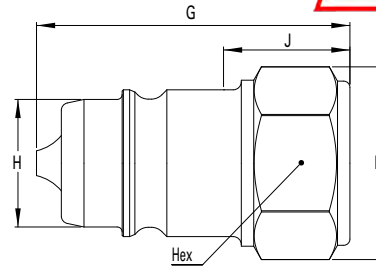


Figure 3

Plugs (Male)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)		Fig.	Dimensions										Weight	
FKM	EPDM	(in)	(mm)	NPT	BSPP		G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HZ05002V0	HZ05002E0	1/8	3.8	-	1/8-28	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HZ05202V0	HZ05202E0	1/8	3.8	1/8-27	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HZ05012V0	HZ05012E0	1/4	5.7	-	1/4-19	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HZ05212V0	HZ05212E0	1/4	5.7	1/4-18	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HZ05022V0	HZ05022E0	3/8	7.6	-	3/8-19	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.15	70
HZ05222V0	HZ05222E0	3/8	7.6	3/8-18	-	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.15	70
HZ05032V0	HZ05032E0	1/2	10.3	-	1/2-14	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HZ05232V0	HZ05232E0	1/2	10.3	1/2-14	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HZ05042V0	HZ05042E0	3/4	14.2	-	3/4-14	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HZ05242V0	HZ05242E0	3/4	14.2	3/4-14	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HZ05052V0	HZ05052E0	1	16.5	-	1-11	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HZ05252V0	HZ05252E0	1	16.5	1-11 1/2	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HZ05062V0	HZ05062E0	1 1/4	20.5	-	1 1/4-11	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	1.98	900
HZ05072V0	HZ05072E0	1 1/2	25.8	-	1 1/2-11	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.30	1500
HZ05092V0	HZ05092E0	2	34.7	-	2-11	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.06	1840

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version; add Dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part Number	Plug Dust Cap Part Number
(in)	Anodized Aluminum	Anodized Aluminum
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap



Seal Kit for Servicing Sockets (Female)

Body Size	Seal & Back-up Ring Kit*					
(in)	NBR seals & PTFE back-up rings	Qty	FKM seals & PTFE back-up rings	Qty	EPDM seals & PTFE back-up rings	Qty
1/8	HG 05001 00	50 O-rings + 50 Backup rings	HG 05001 V0	15 O-rings + 15 Backup rings	HG 05001 E0	15 O-rings + 15 Backup rings
1/4	HG 05011 00	50 O-rings + 50 Backup rings	HG 05011 V0	15 O-rings + 15 Backup rings	HG 05011 E0	15 O-rings + 15 Backup rings
3/8	HG 05021 00	50 O-rings + 50 Backup rings	HG 05021 V0	15 O-rings + 15 Backup rings	HG 05021 E0	15 O-rings + 15 Backup rings
1/2	HG 05031 00	50 O-rings + 50 Backup rings	HG 05031 V0	15 O-rings + 15 Backup rings	HG 05031 E0	15 O-rings + 15 Backup rings
3/4	HG 05041 00	50 O-rings + 50 Backup rings	HG 05041 V0	15 O-rings + 15 Backup rings	HG 05041 E0	15 O-rings + 15 Backup rings
1	HG 05051 00	50 O-rings + 50 Backup rings	HG 05051 V0	10 O-rings + 10 Backup rings	HG 05051 E0	10 O-rings + 10 Backup rings
1 1/4	HG 05061 00	15 O-rings + 15 Backup rings	HG 05061 V0	5 O-rings + 5 Backup rings	-	-
1 1/2	HG 05071 00	15 O-rings + 15 Backup rings	-	-	-	-
2	HG 05091 00	15 O-rings + 15 Backup rings	-	-	-	-

*The valve seal is not included in our repair kits



GUYSON INTERNATIONAL LIMITED

HOSE & COUPLINGS DIVISION

Southview Business Park, Guiseley, Leeds LS20 9PR

Tel: 01943 870044 e-mail: leeds@guyson.co.uk web: www.guyson.co.uk

