

Hose Set - Series **HG**

Data Sheet



HG-Hose set

Hose set for gaseous hydrogen, for connecting a high pressure refueling nozzle with the associated breakaway coupling, for its use in hydrogen refueling stations.

Function	Benefits	Matching equipment
Connecting the breakaway coupling of a hydrogen refueling system with its nozzle, including electrical lines necessary to allow the dispenser to control the filling process.	Qualified hydrogen hoses, covered by a reliable protection hose ensure a very high standard of operational safety for both equipment and users.	Refueling nozzles Series HG - 35 MPa NF* Series HG - 35 MPa HF* Series HG - 70 MPa NF*

Properties	Detailed information	Data
Technical features	Nominal working pressure (NWP)	35 / 70 MPa acc. to ISO 19880
	Maximum operation pressure (MOP)	43,75 / 87,5 MPa
	Maximum allowable working pressure (MAWP)	48,12 / 96,25 MPa
	Electrical resistance (total refueling system / WALTHER components only)	< 1000 Ohm acc. to ISO 17268
Materials	Protection hose	PUR, electrically conductive, pricked
	High pressure hose	Stainless steel wire reinforced

The maximum permissible operating pressures specified here for the quick coupling systems apply exclusively for gaseous hydrogen in accordance to Directive 2014/68/EU. The use of other materials, other media (especially media from Group I) or other temperature ranges can lead to deviating maximum permissible operating pressures and must be requested separately at your supplier or directly at WALTHER-PRÄZISION. Please note that both the maximum permissible operating pressure of the quick coupling system and the maximum permissible operating pressure of the connection must be considered in determining the plant operating pressure. Our safety instructions must be followed. You can find the safety instructions on <https://www.walther-praezision.de/en/download-center/>. If you have additional questions or need further information, please consult either your supplier or WALTHER-PRÄZISION directly.

Overview

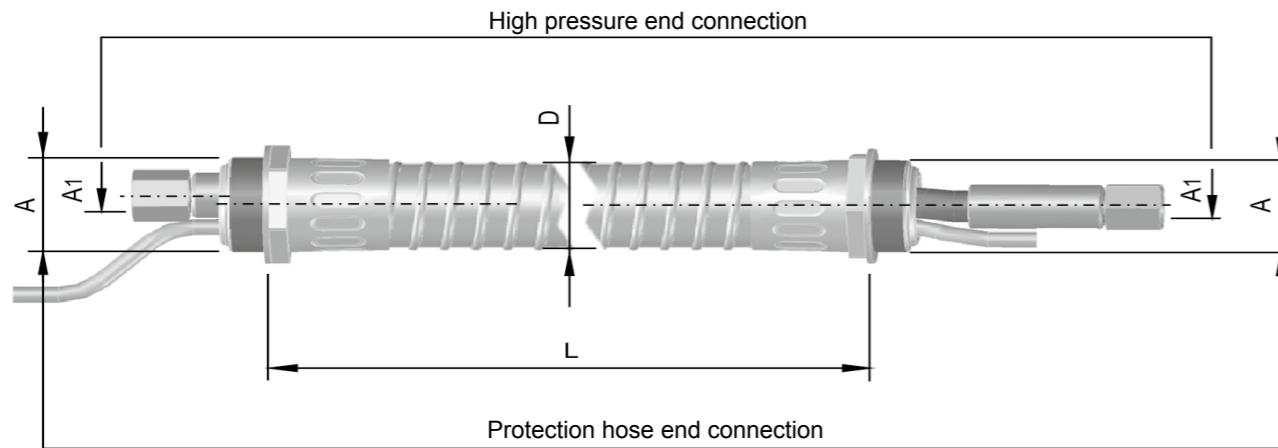


Table of products										
NB	Product type	IR-Interface*	Flushing line (4mm)	A	A1	D (outside) [mm]	L (free length of hose) [mm]	Weight [kg]	ID	Part number
5	35 MPa Hose set NF*	ESCHA**	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	238527	HG-008-B-00018-SBBE-Y116-BB-S035
5	35 MPa Hose set NF*	LEMO**	x	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	238528	HG-008-B-00018-SBBF-Y146-BB-S035
8	35 MPa Hose set HF*	LEMO**	x	M63x1,5	3/4"-16 UNF	Ca. 56	4,000	3,3	247129	HG-008-B-00019-SBBF-Y116-BB-THF-S035
8	35 MPa Hose set HF*	LEMO**	x	M63x1,5	3/4"-16 UNF	Ca. 56	4,000	3,3	247870	HG-008-B-00020-SBBF-Y146-BB-THF-S035
8	35 MPa Hose set HF*	LEMO**	x	M63x1,5	3/4"-16 UNF	Ca. 56	4,000	3,3	247871	HG-008-B-00020-SBBF-Y116-BB-THF-S035
8	35 MPa Hose set HF*	-----	x	M63x1,5	3/4"-16 UNF	Ca. 56	4,000	3,3	247873	HG-008-B-00020-SBBF-Y156-BB-THF-S035
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5 (noozle only)	9/16"-18 UNF Type-M	Ca. 36	2,500	2	232368	HG-004-B-00018-SFBR-Y126-BB-S070
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	237764	HG-004-B-00018-SBBA-Y116-BB-S070
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	237766	HG-004-B-00020-SBBB-Y116-BB-S070
4	70 MPa Hose set NF*	LEMO**	x	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	3,000	2,5	237837	HG-004-B-00019-SBBC-Y146-BB-S070
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5 (noozle only)	9/16"-18 UNF Type-M	Ca. 36	2,310	2	237850	HG-004-B-00020-SFBT-Y126-BB-S070
4	70 MPa Hose set NF*	-----	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	238277	HG-004-B-00021-SBBD-Y136-BB-S070
4	70 MPa Hose set NF*	LEMO**	x	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	238885	HG-004-B-00022-SBBE-Y146-BB-S070
4	70 MPa Hose set NF*	-----	x	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	4,000	3,3	239301	HG-004-B-00023-SBBE-Y156-BB-S070
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	15,150	12,5	244385	HG-004-B-00025-SBBA-Y186-BB-S070
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	6,000	5	245112	HG-004-B-00021-SBBO-Y116-BB-S070
4	70 MPa Hose set NF*	LEMO**	-	M40x1,5	9/16"-18 UNF Type-M	Ca. 36	3,000	2,5	245312	HG-004-B-00019-SBBG-Y166-BB-S070
-	Protection hose	-----	-	M40x1,5 (noozle only)	-----	Ca.36	2,310		232369	HG-004-B-00019-SFBR-Y726-BB

* NF = Normal flow / HF = High flow

** Breakaway-side LEMO: 5-way double sided with emergency separation plug
Breakaway-side ESCHA: 5-way double sided, pull-only emergency plug

Series **HG** | Hose Set | General Information

The WALTHER-PRÄZISION high pressure refueling system of the HG series is developed for safe and fast refueling with gaseous hydrogen. The usual application is the refueling of hydrogen driven vehicles up to a maximum operating pressure of 87.5 MPa / 12,688 psi. The refueling systems are tested

and validated according to SAE J2600 and ISO 17268, the worldwide standards for refueling interfaces. Since 2006 WALTHER-PRÄZISION has significantly contributed to set the standards for high-pressure hydrogen technology, offering today validated systems for the mobility of the future.

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