Hose designs for special requirements



Tempmaster

- Basis are all hoses according to EN 853, 856 and 857
- Extreme temperature resistance inner and outer coating
- Continuous temperature: -40° C to +150° C
- Field of application: Machines with high temperature conditions (e.g. engine compartment)



Stonemaster

- Basis are all hoses according to EN 853, 856 and 857
- Outer abrasion resistance exterior sheathing (3xtimes better then standard outer sheathings
- Field of application: Machines with rough operating conditions (e.g. in the mining industry)
- Approval according to DIN 22100 T.5 (previously LOBA)



Diamondmaster

- Basis are all hoses according to EN 853, 856 and 857
- Extreme abrasion resistance outer sheathing with PE coating (all colours are possible)
- No measurable abrasion after 1 million lifts
- Field of application: Machines with extreme wear requirements on the hose lines used (no additional abrasion protection required)



Ozonemaster

- Basis are all hoses according to EN 853, 856 and 857
- Extreme weather and ozone resistance outer sheathing
- Field of application: Machines with extremely high environmental conditions (sun, cold, electrical smog, UV radiation)



Frostmaster

- Basis are all hoses according to EN 853, 856 and 857
- Extreme low temperature resistance inner and outer coating
- Continuous temperature: -50° C to +135° C
- Field of application: Machines in low temperature conditions (e.g. coolers, extreme climate areas)



Flame proof

- Basis are all hoses according to EN 853, 856 and 857
- Exterior sheathing made of fire retardant special elastomer acts in case of fire extinguishing and minimized pollutant release
- Field of application: Machines and equipment for underground use in the international mining field
- Approval according to DIN 22100 T.5 (previously LOBA)



MSHA approval

- Basis are all hoses according to EN 853, 856 and 857
- Sheathing made of extinguishing acting special elastomer
- Minimizing the release of harmful substances in case of fire
- Field of application: Machines and equipment for underground use in the international mining field



Forklifts

- Special hydraulic hose for very high hydraulic and dynamic load at low installation conditions and tight bending radii
- Use: for example, on the mast hydraulic



Washing machine hose

- Basis are all hoses according to EN 853 and 857
- Resistant against water and common cleaning agents
- Temperature range of -40° C to +150° C

KNAPHEIDE
HYDRAULIK-SYSTEME

Hydraulikschlauch mit zwei Stahldrahteinlagen — 2SC EN 857

Hydraulic hose with two wire braids



Temperaturbereich:	-40° C bis +100° C	**Temperature range:**	-40° F to +212° F
Max. Betriebstemperatur:	kurzzeitig +125° C	**Max. operating temp.:**	+257° F
Seele:	ölbeständiges, synthetisches Gummi	**Tube:**	Oil resistant, synthetic rubber
Druckträger:	zwei hochzugfeste Stahldrahtgeflechte aus vergüteten, oberflächengeschützten Stahldrähten	**Reinforcement:**	Two high tensile, tempered steel wire braids with protective coating
Decke:	synthetisches Gummi mit hoher Abrieb-, Ozon- und Witterungsbeständigkeit	**Cover:**	Synthetic rubber with high abrasion, ozone and weather resistance
Anwendung:	Hydrauliksysteme mit Hydraulikflüssigkeiten auf Mineralölbasis, Öl- und Wasseremulsionen sowie wässrigen Glykollösungen	**Application:**	For hydraulic systems employing hydraulic liquids based on mineral oils, water/oil emulsions and glycolsolutions

Anmerkung: Schlauchtyp für bes. Anforderungen auch in versch. MASTER-Ausführungen lieferbar (siehe Seite...)

Note: Hose type for special requirements also available in several MASTER-constructions (see page...)

DN	Zoll inch	size	Innen-Ø inner-Ø	Geflecht-Ø wire braid-Ø	Außen-Ø outer-Ø	Betriebsdruck working pressure		Prüfdruck Te. pressure	Berstdruck Bu. pressure	Biegeradius bend radius	Gewicht ≈ weight ≈
			mm	mm	mm	bar	psi	bar	bar min.	mm	kg/m
5	3/16	-3	4,6	9,5	11,8	415	6000	830	1660	50	0,253
6	1/4	-4	6,4	11,2	13,4	400	5800	800	1600	55	0,295
8	5/16	-5	7,9	12,7	15,0	350	5075	700	1400	60	0,345
10	3/8	-6	9,5	15,0	17,4	350	5075	700	1400	65	0,415
12	1/2	-8	12,7	18,3	20,6	275	4000	550	1100	95	0,500
16	5/8	-10	15,9	21,4	23,7	250	3625	500	1000	140	0,620
19	3/4	-12	19,0	25,5	27,7	215	3100	430	860	180	0,835
25	1	-16	25,4	33,4	35,6	165	2400	330	660	220	1,150

Stand: 11/13
Issue: 11/13

Knapheide GmbH Hydraulik-Systeme · Daimlerring 1 · D-59269 Beckum
Tel.: +49 (0) 25 21/158-0 · Fax: 158-222 · www.knapheide.de · info@knapheide.de