



GITA MARKETING CO.

PRODUCT CATALOGUE 2026

HYDRAULIC SYSTEMS CATALOGUE

Hoses · Fittings · Assemblies · Custom Fabrication

Gita Marketing Co.

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Hydraulic Products & Assembly Services

GMC's hydraulic programme combines Polyhose India's certified hose range with in-house assembly capability to deliver complete hydraulic hose solutions — from individual components through to fully assembled, tested, and tagged hose sub-assemblies for OEM, aftermarket, and MRO applications.

Our assembly facility is equipped with calibrated hydraulic crimping tools, pressure test rigs, and the full Polyhose crimp specification database. We maintain stock of the most common sizes and end-fitting types for rapid turnaround.

Hydraulic Hose Range — Technical Specifications

SAE 100R1AT — Single Wire Braid (Polyhose PH253)

Medium-pressure hydraulic hose with single high-tensile steel wire braid reinforcement. Industry standard for mobile and industrial hydraulic circuits to 250 bar. Complies with SAE J517 100R1AT, EN 853 1SN, and ISO 1436.

Size	ID (mm)	OD (mm)	WP (bar)	WP (PSI)	Burst (PSI)	Bend R (mm)
3/16"	4.8	11.9	248	3,600	14,400	90
1/4"	6.4	13.5	225	3,250	13,000	100
5/16"	7.9	15.1	207	3,000	12,000	115
3/8"	9.5	17.5	190	2,750	11,000	130
1/2"	12.7	21.5	155	2,250	9,000	180
5/8"	15.9	24.5	129	1,875	7,500	200
3/4"	19.1	28.5	103	1,500	6,000	240
1"	25.4	35.7	86	1,250	5,000	300
1-1/4"	31.8	42.9	69	1,000	4,000	420

Temperature: -40°C to +100°C continuous (+120°C intermittent) · Fluid: mineral oil, emulsions, glycol/water · Safety factor 4:1. Standards: SAE J517 100R1AT · EN 853 1SN · ISO 1436. Larger sizes available · contact GMC for sized datasheet.

SAE 100R2AT — Double Wire Braid (Polyhose PH254)

High-pressure double-braid hydraulic hose for demanding applications up to 415 bar. Complies with SAE J517 100R2AT, EN 853 2SN, and ISO 1436.

Size & pressure data for R2AT · see table overleaf (page 3).



Size	ID (mm)	OD (mm)	WP (bar)	WP (PSI)	Burst (PSI)	Bend R (mm)
3/16"	4.8	13.4	414	6,000	24,000	90
1/4"	6.4	15.0	400	5,800	23,200	100
5/16"	7.9	16.5	345	5,075	20,300	115
3/8"	9.5	18.9	330	4,785	19,140	125
1/2"	12.7	22.2	275	3,988	15,950	180
5/8"	15.9	25.6	250	3,625	14,500	205
3/4"	19.1	29.3	215	3,118	12,470	240
1"	25.4	37.8	165	2,393	9,570	300

Temperature: -40°C to +100°C continuous (+120°C intermittent) · Fluid: mineral oil, emulsions, glycol/water · Safety factor 4:1.
Standards: SAE J517 100R2AT · EN 853 2SN · ISO 1436. Sizes above 1" supplied as 4SP/4SH spiral hose · contact GMC.

End Fittings & Connection Standards

GMC stocks and assembles the following fitting types. All fittings are sourced from approved manufacturers and are compatible with Polyhose hoses within the published crimp specification.

Fitting Type	Thread	Applications
BSP (BSPP) Parallel	G1/8" – G2"	General hydraulic · industrial UK/EU standard
BSP Tapered (BSPT)	R1/8" – R2"	Pipe fittings · pressure fittings with sealant/tape
NPT (American Taper)	1/8" – 2" NPT	US market equipment · pneumatic instruments
JIC 37° Flare	-4 to -32 AN	Aerospace · high-vibration · leak-free tube joints
SAE Straight Thread (O-ring)	-4 to -32 SAE	High-pressure hydraulics · no sealant required
DIN 24° Cone (DIN 2353)	L & S series	European heavy equipment · machine tools
Metric Compression	M8 – M42	Instrumentation · light hydraulic plumbing
Banjo	M8, M10, M12 banjo bolt	Compact inline connections · brake circuits
ORFS (O-ring Face Seal)	-4 to -24 ORFS	Highest leak integrity · clean room · offshore

Hydraulic Hose Assembly Services

Every GMC hydraulic assembly follows a controlled fabrication process to guarantee integrity and traceability. The process is:

- Step 1 — Cut hose to specified length ± 1 mm using calibrated cutting saw
- Step 2 — Skive hose cover (if required per fitting specification)
- Step 3 — Fit and inspect end fittings — check insertion depth
- Step 4 — Crimp using calibrated hydraulic crimping machine to Polyhose-specified crimp diameter
- Step 5 — Crimp dimension check — dial gauge measurement, recorded on assembly sheet
- Step 6 — Pressure test to 1.5x rated working pressure for 60 seconds — visual inspection





- Step 7 — Tag: customer ref · rated WP · test P · date · inspector ID
- Step 8 — Cap ends and package for delivery

Minimum Assembly WP	From 69 bar (1-1/4" R1AT) to 414 bar (3/16" R2AT) · per Polyhose TDS 2026.
Test Pressure	1.5x rated working pressure (standard) · 2x available on request
Test Fluid	Hydraulic mineral oil or water — customer's choice
Test Certificate	Individual certificate with hose ID, WP, test P, date, and inspector sign-off
Traceability	Hose batch, fitting lot, crimp data — retained 5 years
Assembly Lead Time	Standard 2–5 days · Same-day urgent available
Routing Service	Complex routed assemblies from customer isometrics or physical pattern
Labels & Tags	Tie-on metal tags or adhesive polyester labels as preferred

Fluid Compatibility

Polyhose R1AT and R2AT hydraulic hoses are compatible with the following hydraulic media:

Fluid Type	R1AT	R2AT	Notes
Petroleum-based mineral oils (ISO VG 32–68)	✓	✓	Standard duty
Fire-resistant HFA (oil-in-water emulsions)	✓	✓	Rinse after use
Fire-resistant HFB (water-in-oil)	✓	✓	Standard
Glycol/water (HFC)	✓	✓	Check end fitting material
Synthetic esters (HFD)	✓	✓	Consult GMC for seals
Phosphate esters (Skydrol/Hyjet)	✗	✗	Use PTFE lined hose
Brake fluids (DOT 3/4)	Consult	Consult	Case by case
Biodegradable oils (HETG/HEES)	✓	✓	Preferred for environment

PHOSPHATE ESTER FLUIDS

Skydrol and similar phosphate ester fluids are incompatible with standard rubber hoses. PTFE-lined hose (PH179 R14) with stainless steel fittings must be specified.

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