HYDRASTARK OFFICIAL ENGINEERING CATALOG (VECTOR PDF)

700-2800 BAR HOSES, COUPLERS & VALVES CATALOG

Thermoplastic UHP Hoses, 3/8" NPT Quick-Disconnect Couplers, Glycerin Pressure Gauges, Valves & Manifolds

Browse Online Catalog ->

700 Bar System Oil Calculator ->

OEM Cross-Reference Matrix ->

FACTORY DIRECT
HANGZHOU, CHINA

- Since 2008 OEM/ODM
- 700 to 4,000 Bar Rated
- ISO 9001 & CE Certified
- 100% Proof-Load Tested

Web: www.hydrastark.com
Email: sales@hydrastark.com

INCLUDED PRODUCT SERIES DIRECTORY (7 SERIES - CLICK ANY ITEM TO OPEN LIVE DATASHEET):

01. HSH Series 700-2800 Bar High Pressure Hydraulic Hoses
02. HSG Series Stainless Steel Liquid-Filled Pressure Gauges
03. HGA Series 700 Bar Precision Gauge Adaptors
04. HSV Series 700 Bar Directional & Flow Control Valves
05. HSM Series 700 Bar Multi-Port Manifold Distribution Blocks
06. HQC Series High-Flow Quick-Disconnect Couplers
07. HFT Series 700 Bar High-Pressure Forged Pipe Fittings

HSH Series 700-2800 Bar High Pressure Hydraulic Hoses

High-pressure rubber and thermo-plastic hydraulic hoses rated for 700 Bar (10,000 PSI) up to 2,800 Bar (40,000 PSI), engineered for high-tonnage lifting, torque wrenching, and hydrostatic testing across 1.8 to 6.0 m lengths with up to 4:1 safety burst margins.



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PRODUCT SERIES	RATED WORKING PRESSURE	BURST PRESSURE SAFETY FACTOR
HSH Series 700-2800 Bar High-Pressure Hydraulic Hoses	700 Bar (10,000 PSI) to 2,800 Bar (40,000 PSI)	1,400 to 7,400 Bar (Up to 4:1 Safety Margin)

HOSE CONSTRUCTION MATERIALS	END FITTING CONNECTIONS	STANDARD PRE-ASSEMBLED LENGTHS
Wire-Braided Synthetic Rubber & High-Strength Thermo-Plastic	3/8"-18 NPT, 1/4"-18 NPT, G-1/4" with Optional Quick Couplers	1.8 m, 3.0 m, 6.0 m Standard Options (Custom Lengths on Request)

Model	Hose Material	ID [mm]	Working Pressure [Bar]	Blast Pressure [Bar]	End 1	End 2	Length [m]
HSH-7006	Thermo-Plastic	4	2800	7400	G-1/4"	G-1/4"	1.8
HSH-7010	Thermo-Plastic	4	2800	7400	G-1/4"	G-1/4"	3.0
HSH-7020	Thermo-Plastic	4	2800	7400	G-1/4"	G-1/4"	6.0
HSH-7106	Thermo-Plastic	4	1500	5250	G-1/4"	G-1/4"	1.8
HSH-7110	Thermo-Plastic	4	1500	5250	G-1/4"	G-1/4"	3.0
HSH-7120	Thermo-Plastic	4	1500	5250	G-1/4"	G-1/4"	6.0
HSH-7206	Thermo-Plastic	6	720	2880	3/8"-NPT	3/8"-NPT	1.8
HSH-7210	Thermo-Plastic	6	720	2880	3/8"-NPT	3/8"-NPT	3.0
HSH-7220	Thermo-Plastic	6	720	2880	3/8"-NPT	3/8"-NPT	6.0
HSH-7306	Thermo-Plastic	10	700	1400	3/8"-NPT	3/8"-NPT	1.8
HSH-7310	Thermo-Plastic	10	700	1400	3/8"-NPT	3/8"-NPT	3.0
HSH-7320	Thermo-Plastic	10	700	1400	3/8"-NPT	3/8"-NPT	6.0
HSH-8206N	Rubber	6	700	1400	3/8"-NPT	3/8"-NPT	1.8
HSH-8210N	Rubber	6	700	1400	3/8"-NPT	3/8"-NPT	3.0
HSH-8220N	Rubber	6	700	1400	3/8"-NPT	3/8"-NPT	6.0
HSH-8206C	Rubber	6	700	1400	3/8"-NPT	HQC-201B (3/8") + Dust Cap	1.8
HSH-8210C	Rubber	6	700	1400	3/8"-NPT	HQC-201B (3/8") + Dust Cap	3.0
HSH-8220C	Rubber	6	700	1400	3/8"-NPT	HQC-201B (3/8") + Dust Cap	6.0
HSH-8206TC	Rubber	6	700	1400	1/4"-NPT	HQC-202B (1/4") + Dust Cap	1.8

HIGH PRESSURE HOSES & GAUGES | OEM CROSS-REFERENCE: ENERPAC G SERIES GAUGES EQUIVALENT

HSG Series Stainless Steel Liquid-Filled Pressure Gauges

Stainless steel liquid-filled pressure gauges rated for 0-700 to 0-1,600 Bar (0-10,000 to 0-23,000 PSI), engineered for continuous hydraulic monitoring, pulsation damping, and proof-load testing with Class 1.0 (±1.0%) precision across 63.5 mm and 101.6 mm dial diameters.



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PRODUCT SERIES	PRESSURE MEASUREMENT RANGE	DIAL SURFACE DIAMETERS
HSG Series Stainless Steel Liquid-Filled Pressure Gauges	0-700 Bar, 0-1,000 Bar, 0-1,600 Bar (Up to 23,000 PSI)	63.5 mm (2.5") / 101.6 mm (4.0") High-Visibility Displays
ACCURACY CLASSIFICATION	**DAMPING & CASE CONSTRUCTION**	**THREAD CONNECTIONS**
Class 1.0 (±1.0% Full Scale Accuracy)	Glycerine Liquid-Filled Damping, AISI 304 Stainless Steel Housing	1/4"-18 NPT, 1/2"-14 NPT, G-1/2" Bottom Mount

Model Number	Dial Diameter [mm]	Pressure Range (Bar / MPa) [Bar (MPa)]	Pressure Range (PSI)	Thread Connection	Accuracy Class
HSG-2507	63.5 (2.5")	0 - 700 (0 - 70 MPa)	0 - 10,000	1/4" NPT	±1.0%
HSG-2510	63.5 (2.5")	0 - 1,000 (0 - 100 MPa)	0 - 15,000	1/4" NPT	±1.0%
HSG-4010	101.6 (4.0")	0 - 1,000 (0 - 100 MPa)	0 - 15,000	1/2" NPT	±1.0%
HSG-4016	101.6 (4.0")	0 - 1,600 (0 - 160 MPa)	0 - 23,000	G-1/2"	±1.0%

HIGH PRESSURE HOSES & GAUGES | OEM CROSS-REFERENCE: ENERPAC GA SERIES ADAPTORS EQUIVALENT

HGA Series 700 Bar Precision Gauge Adaptors

Solid forged alloy steel gauge adaptors rated for 700 Bar (10,000 PSI), engineered for direct 3/8" NPT in-line pressure monitoring with 90° vertical gauge ports (HGA-002/003/005) and a compact 45° angled port (HGA-006, 52 mm height).



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PRODUCT SERIES
HGA Series 700 Bar Precision Gauge Adaptors

RATED WORKING PRESSURE
700 Bar (10,000 PSI) Continuous Operating Pressure

BURST PRESSURE SAFETY FACTOR
2,800 Bar (40,000 PSI) 4:1 Safety Margin

IN-LINE HYDRAULIC PORTS
3/8"-18 NPT Male (Inlet D) to 3/8"-18 NPT Female (Outlet E)

GAUGE PORT THREADS
1/4" NPT Female (HGA-003, HGA-005, HGA-006) / 1/2" NPT Female (HGA-002)

BODY ARCHITECTURE STYLES
90° Vertical Gauge Port (HGA-002/003/005) & 45° Angled Port (HGA-006)

Model Number	Port Configuration Style	Inlet Thread (D)	Outlet Thread (E)	Gauge Port Thread (C)	Overall Length (A) [mm]	Port Offset / Height (B) [mm]	Body / Hex Width (F) [mm]
HGA-002	90° Vertical Gauge Port	3/8" NPT Male	3/8" NPT Female	1/2" NPT Female	155	35	32
HGA-003	90° Vertical Gauge Port	3/8" NPT Male	3/8" NPT Female	1/4" NPT Female	133	48	32
HGA-005	90° Vertical Gauge Port	3/8" NPT Male	3/8" NPT Female	1/4" NPT Female	134	35	32
HGA-006	45° Angled Gauge Port	3/8" NPT Male	3/8" NPT Female	1/4" NPT Female	65	20	28

HSV Series 700 Bar Directional & Flow Control Valves

Solid forged alloy steel directional and flow control valves rated for 700 Bar (10,000 PSI), engineered for cylinder speed throttling, pilot-operated fail-safe locking, manual load holding, and adjustable 55-700 Bar overpressure bypass.



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PRODUCT SERIES	HSV Series 700 Bar Directional & Flow Control Valves
RATED WORKING PRESSURE	700 Bar (10,000 PSI) Continuous Industrial Rating
PORT THREAD STANDARDS	3/8"-18 NPTF / 1/4"-18 NPTF Dry-Seal Porting
VALVE CONFIGURATIONS	Needle Flow Control, Pilot Check (6.5:1), Manual Check, Relief Valves
RELIEF ADJUSTMENT RANGE	55 to 700 Bar Adjustable with ±3% Repeatability (HSV-152)
BODY CONSTRUCTION & FINISH	Precision Forged Solid Alloy Steel, Corrosion-Resistant Plating

Model Number	Valve Category	Max Working Pressure	Port Thread (NPTF)	Adjustment & Pilot Ratio	Dimensions (L x W x H) [mm]
HSV-11	Needle Flow Control Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female	Fine metering stem / Speed throttling	60 x 47 x 88
HSV-114	Needle Snubber & Throttle Valve	700 Bar (10,000 PSI)	1/4"-18 NPTF Female	Gauge pulsation dampening & throttling	60 x 47 x 88
HSV-42	Pilot-Operated Check Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female	Pilot ratio 6.5:1 (14% pilot pressure)	73 x 30 x 66
HSV-23	Manually Operated Check Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female	T-Handle Rotary Screw for load holding & oil return	89 x 57 x 102
HSV-152	Adjustable Pressure Relief Valve	700 Bar (10,000 PSI)	3/8"-18 NPTF Female (3x)	55 - 700 Bar adjustable (±3% repeatability), incl. 0.9 m return line hose	193 x 38 x 79

COUPLERS, VALVES & MANIFOLDS | OEM CROSS-REFERENCE: ENERPAC AM SERIES MANIFOLDS EQUIVALENT

HSM Series 700 Bar Multi-Port Manifold Distribution Blocks

Solid forged steel multi-port distribution manifolds rated for 700 Bar (10,000 PSI), engineered for multi-cylinder synchronized branching, 6-port hex spider distribution, and independent needle valve throttling across 2 to 9 ports (3/8"-18 NPT / NPTF).



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PRODUCT SERIES
HSM Series 700 Bar Multi-Port Manifold Distribution Blocks

RATED WORKING PRESSURE
700 Bar (10,000 PSI) Continuous Operating Pressure

PORT THREAD STANDARDS
3/8"-18 NPTF Zero-Leakage Dry-Seal Female Ports

MANIFOLD ARCHITECTURE STYLES
Short Inline 4-Port, Long Inline 9-Port, Hexagonal Spider 6-Port, 2/4-Way Regulating

INTEGRATED FLOW THROTTLING
Models HSM-402 & HSM-404 Include Built-In Fine Metering Needle Valves

BODY CONSTRUCTION & MOUNTING
Solid Forged High-Tensile Steel with Pre-Drilled Rigid Base Mounting Holes

Model Number	Manifold Architecture	Port Configuration	Port Thread (NPTF)	Integrated Flow Control	Port Spacing & Mounting	Dimensions (L x W x H) [mm]
HSM-102	Short Inline Junction Block	4 Ports (1 Inlet / 3 Outlets)	3/8"-18 NPTF Female	Open flow distribution block	50 mm port spacing	102 x 32 x 32
HSM-106	Long Inline Multi-Port Header	9 Ports (9 × 3/8"-18 NPT)	3/8"-18 NPTF Female	Open flow multi-port header	5 × 50 mm port spacing; 2-Ø6.4 mounting holes (200 mm C-C)	302 x 32 x 32
HSM-206	Hexagonal Spider Junction Block	6 Radial Ports (360° Omnidirectional)	3/8"-18 NPTF Female	Centralized spider branching	2 × 1/4"-20 UNC base tapped holes (38 mm C-C)	50 (Hex) x 58
HSM-402	2-Way Regulating Manifold	3 Ports (1 Inlet / 2 Regulated Outlets)	3/8"-18 NPTF Female	2 Integrated needle valves with T-handles	80 mm valve spacing; Ø6.5 base mounting holes	130 x 45 x 93.3
HSM-404	4-Way Regulating Manifold	5 Ports (1 Inlet / 4 Regulated Outlets)	3/8"-18 NPTF Female	4 Integrated needle valves with T-handles	3 × 70 mm valve spacing; Ø6.5 base mounting holes	260 x 45 x 93.3

COUPLERS, VALVES & MANIFOLDS | OEM CROSS-REFERENCE: ENERPAC CR-400 / C-604 EQUIVALENT

HQC Series High-Flow Quick-Disconnect Couplers

Heavy-duty high-flow quick-disconnect hydraulic couplers rated for 700 to 1,400 Bar (10,000 to 20,000 PSI), engineered for leak-free rapid tool interchange, positive ball locking, and automatic poppet sealing across 1/4" and 3/8" NPT and G-1/4" lines.



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PRODUCT SERIES
HQC Series High-Flow Quick-Disconnect Couplers

RATED WORKING PRESSURE
700 Bar (10,000 PSI) to 1,400 Bar (20,000 PSI)

VALVING ARCHITECTURE
Dual Self-Sealing Poppet Check Valves for Zero Disconnect Fluid Loss

MECHANICAL LOCKING MECHANISM
Circumferential Alloy Steel Locking Balls with Spring-Loaded Knurled Sleeve

PORT THREAD CONNECTIONS
3/8"-18 NPT (HQC-201/203), 1/4"-18 NPT (HQC-202), G-1/4" BSPP (HQC-204)

PROTECTIVE EQUIPMENT
Supplied Complete with Heavy-Duty Dust Caps to Prevent Particle Contamination

Model Number	Max Working Pressure	Flow Architecture	Port Thread Connection	Female Coupler (Body)	Male Coupler (Nipple)	Application System Remarks
HQC-201	700 Bar (10,000 PSI)	Standard High Flow	3/8"-18 NPT (Body Male / Nipple Female)	HQC-201A	HQC-201B	Standard 700 Bar hydraulic pump, hose & cylinder circuit coupler
HQC-202	700 Bar (10,000 PSI)	Compact High Flow	1/4"-18 NPT (Body Male / Nipple Female)	HQC-202A	HQC-202B	Compact hydraulic tools, torque pumps & low-profile jacks
HQC-203	700 Bar (10,000 PSI)	Special Low-Profile High Flow	3/8"-18 NPT (Body Male / Nipple Female)	HQC-203A	HQC-203B	Dedicated coupler profile engineered for HSCF-50 low-height flat cylinders
HQC-204	1,400 Bar (20,000 PSI)	Ultra-High Pressure High Flow	G-1/4" Female	HQC-204A	HQC-204B	1,400-1,500 Bar ultra-high pressure bolt tensioning & bearing tool lines

HFT Series 700 Bar High-Pressure Forged Pipe Fittings

Solid forged high-tensile steel high-pressure pipe fittings rated for 700 Bar (10,000 PSI), engineered for rigid leak-free circuit plumbing, 90° directional routing, and multi-line tees across 1/4" and 3/8" NPT and BSP connections.



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PRODUCT SERIES
HFT Series 700 Bar High-Pressure Forged Pipe Fittings

RATED WORKING PRESSURE
700 Bar (10,000 PSI) Continuous Industrial Rating

THREAD STANDARDS
NPTF / BSPT Dry-Seal Tapered & ISO 228/1 G1/4" BSPP Parallel Threads

MATERIAL & CONSTRUCTION
Solid Precision CNC Forged High-Tensile Carbon & Alloy Steel

CORROSION PROTECTION
Heavy-Duty Electro-Plated Zinc Passivation Coating

FITTING CONFIGURATIONS
Straight Couplings, Hex Nipples, Conversion Adapters, 90° Street Elbows, Tees

Model Number	Fitting Architecture	Connection End 1	Connection End 2	Dimensions [mm]	Hex / Body [mm]	Max Working Pressure	Material & Finish	Application Circuit Remarks
HFT-11	Straight Female Coupling	3/8"-18 NPT Female	3/8"-18 NPT Female	L = 32	Hex 24	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	Connects two 3/8" NPT male fittings or hoses directly
HFT-12	Extended Hex Nipple	3/8"-18 NPT Male	3/8"-18 NPT Male	L = 51	Hex 19	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	Extended 51 mm neck length for deep port manifold clearance
HFT-13	Standard Hex Nipple	3/8"-18 NPT Male	3/8"-18 NPT Male	L = 37	Hex 19	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	Standard 37 mm coupler nipple for joining two 3/8" NPT female ports
HFT-14	Parallel BSP Hex Nipple	1/4"-BSP Male	1/4"-BSP Male	L = 43	Hex 19	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	British Standard Pipe parallel connector with bonded seal face
HFT-15	Compact 1/4" Hex Nipple	1/4"-18 NPT Male	1/4"-18 NPT Male	L = 34	Hex 17	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	High pressure 1/4" NPT line nipple for compact tools & pumps
HFT-16	Reducing Hex Nipple	1/4"-18 NPT Male	3/8"-18 NPT Male	L = 36	Hex 19	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	Adapts 1/4" NPT pump/tool port directly to 3/8" NPT circuits
HFT-181	Compact Straight Female Coupling	1/4"-18 NPT Female	1/4"-18 NPT Female	L = 30	Hex 22	700 Bar (10,000 PSI)	Forged Steel, Zinc-Plated	Inline coupler for dual 1/4" NPT male connections
HFT-21	90° Reducing Street Elbow	1/4"-18 NPT Male	3/8"-18 NPT Female	45 × 35 (C-C 25)	25 × 24	700 Bar (10,000 PSI)	Forged High-Strength Steel	90-degree directional transition from 1/4" male to 3/8" female
HFT-22	90° Standard Street Elbow	3/8"-18 NPT Male	3/8"-18 NPT Female	45 × 35 (C-C 25)	25 × 24	700 Bar (10,000 PSI)	Forged High-Strength Steel	90-degree elbow to change hose angle and prevent severe bends
HFT-23	90° Female Reducing Elbow	1/4"-18 NPT Female	3/8"-18 NPT Female	35 × 35	25 × 25	700 Bar (10,000 PSI)	Forged High-Strength Steel	Right-angle female junction connecting 1/4" and 3/8" NPT lines
HFT-31	3-Way Female Equal Tee	3/8"-18 NPT Female (x3)	Equal 3-Port T-Junction	45 × 35	25 × 25	700 Bar (10,000 PSI)	Forged High-Strength Steel	Splits or merges hydraulic flow into multiple branch circuits