JIC Hose Systems

TRADITIONAL HOSE SYSTEM

RECOMMENDED FOR SERVICING EXISTING DIES ONLY





Certified to ISO 9001:2008





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General Information

HYSON, headquartered in Brecksville, Ohio, is a world class engineering and manufacturing company that provides high-quality, safety-engineered force and motion control solutions for a wide range of applications and industries, including automotive, aerospace, appliance, medical and HVAC. HYSON partners with our customers to understand applications and provide the best solutions for each one. We are a full service force control provider for critical machine, vehicle and precision metal processing applications, meaning we can supply dependent upon each customer's needs, including: gas springs, cam systems, cushions, manifolds and knockout systems.

Our success lies with our commitment to continually improve ourselves, our processes and our products to ensure we meet or exceed our customers' expectations. Our ISO-9001, AS-9000 and PED certifications attest to our ongoing commitment to the highest standards of quality.

Introduction

Connecting nitrogen gas springs via hose or tube offers the distinct advantage of being able to monitor and adjust pressure as well as charge and discharge the springs from outside the die. HYSON features five separate systems for connecting gas springs including DualSeal 24[™], Micro24[™], O-Ring Face Seal, EZ Hose (CNOMO), and JIC, all of which have undergone rigorous testing including endurance, static leakage and performance.



Safety Guidelines

For safety and optimum performance life:



A Before connecting gas springs to a hosed system, discharge the nitrogen gas and remove the inlet valve from each spring.

Position the control panel in the tool where it will be protected from mechanical damage, and on a higher level than the gas springs to minimize loss of lubrication oil when discharging the gas.

L Use only nitrogen (N,) gas. The use of other types of gas can result in personal injury or failure of the gas spring/control panel.

Never exceed the maximum charging pressure marked on the gas spring. For most standard gas springs, the maximum charging pressure is 150 bar/2175 psi.



All valves on the control panel should be closed during operation.

🔔 We do not recommend hosing gas springs mounted using FC or FSC flanges as there is a risk that the gas spring will rotate while in operation.

A Gas springs should be connected in a closed loop to help prevent the pad from tilting during charging.



Control Panel

The Control Panel contains bleed and fill valves and a pressure gauge for charging, exhausting and reading pressure in the system. A rupture disk safety feature is also included to ensure all system pressure is exhausted, keeping springs from becoming over-pressurized in the event the pressure exceeds a safe level for the system.



Control Panel Order Number CP-N2-T * Straight Adapter and Mounting Screws are sold separately.

Service Parts			
Order Number	nber Description		
4024535	Bleed Valve		
11-700-8555	Fill Valve		
51-700-9000-LG	Pressure Gauge		
RD-XP	Rupture Disk		

Mounting Parts			
Order Number	Description		
NF-1000-4-G1/8	Straight Adapter		
CS M10-1.5X30MM	Mounting Screws - Metric		
CS 3/8-16X1250	Mounting Screws - English		



(both Sides) Supplied with Plugs





* Includes clearance for button head cap screws



Hose System

Product Specifications

Order Number SHF-S-45-XXXX

Ø 13 mm/.51 mm

OD	13mm/0.51 in
ID	6.25mm/0.25 in
Max. Working Pressure	
Min. Burst Pressure	1380 bar/20,000 psi
Min. Bend Radius	51mm/2.00 in
Min. Crimped Hose Length	150mm/5.91 in (total length with sleeves)



Secure hoses using an M6 screw.



Straight – Straight			
Order Number	L (mm)	L (in)	
SHF-S-S-0200	200	7.87	
SHF-S-S-0300	300	11.81	
SHF-S-S-0400	400	15.75	
SHF-S-S-0630	630	24.80	
SHF-S-S-0800	800	31.50	
SHF-S-S-1000	1000	39.37	
SHF-S-S-1500	1500	59.06	
SHF-S-S-2000	2000	78.74	
SHF-S-S-XXXX	XXXX*	XXXX*	

Straight – 45°			
Order Number	L (mm)	L (in)	
SHF-S-45-0200	200	7.87	
SHF-S-45-0300	300	11.81	
SHF-S-45-0400	400	15.75	
SHF-S-45-0630	630	24.80	
SHF-S-45-0800	800	31.50	
SHF-S-45-1000	1000	39.37	
SHF-S-45-1500	1500	59.06	
SHF-S-45-2000	2000	78.74	
SHF-S-45-XXXX	XXXX*	XXXX*	

mm/ .55





* **NOTE:** "xxxx" = Assembled hose length in millimeters. Minimum order length is 120mm. Simply add the hose length onto the Order Number (i.e., 3020857–2500 for a Straight-Straight assembly with a 2500mm hose length).

Connectors and Adapters

For JIC Hose Connections for Crimping





www.HysonSolutions.com E-mail: Orders@HysonSolutions.com

U.S.A. Headquarters • 10367 Brecksville Road • Brecksville, OH 44141 USA • Tel: 800-876-4976, 440-526-5900

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