EZ Hose System

CNOMO HAND CONNECTION HOSE SYSTEM

FOR APPLICATIONS WHERE HAND-TIGHTENED CONNECTIONS ARE IDEAL











FOR APPLICATIONS WHERE HAND-TIGHTENED CONNECTIONS ARE IDEAL

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General Information

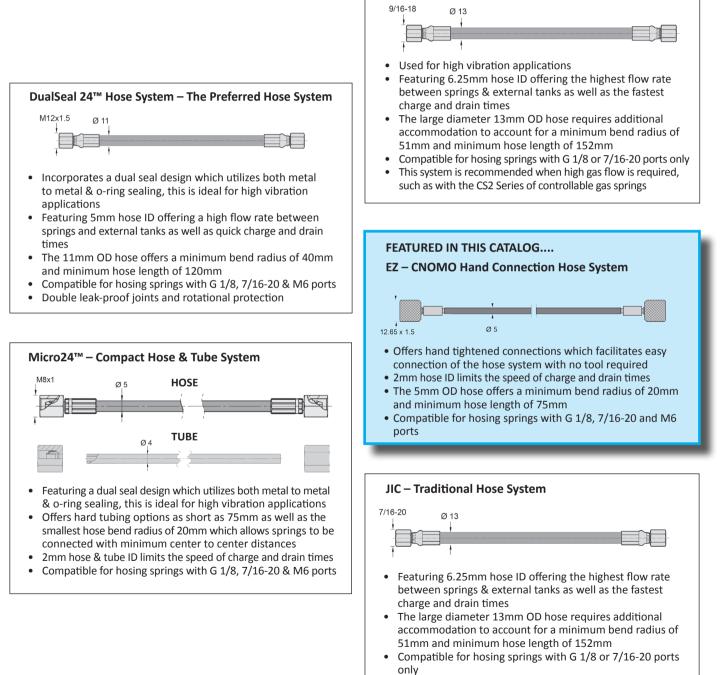
HYSON, headquartered in Brecksville, Ohio, is a world class engineering and manufacturing company that provides high-quality, safety-engineered force and motion control solutions for a wide range of applications and industries, including automotive, aerospace, appliance, medical and HVAC. HYSON partners 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.

O-Ring Face Seal – Traditional High Vibration Hose System

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.



• This system is recommended for servicing existing dies only



Safety Guidelines

For safety and optimum performance life:

- Before connecting gas springs to a hosed system, discharge the nitrogen gas and remove the inlet valve from each spring.
- Position the control valve 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.
- \checkmark Use only nitrogen (N₂) 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 FCS 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.



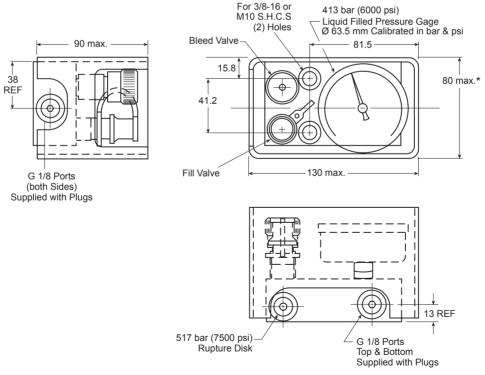
Control Panel Order Number CP-N2-T

* Straight Adapter and Mounting Screws are sold separately.

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

Mounting Parts

Order Number	Description
4114973-G1/8	Straight Adapter
CS M10-1.5X30MM	Mounting Screws - Metric
CS 3/8-16X1250	Mounting Screws - English



* Includes clearance for button head cap screws

EZ Hose System



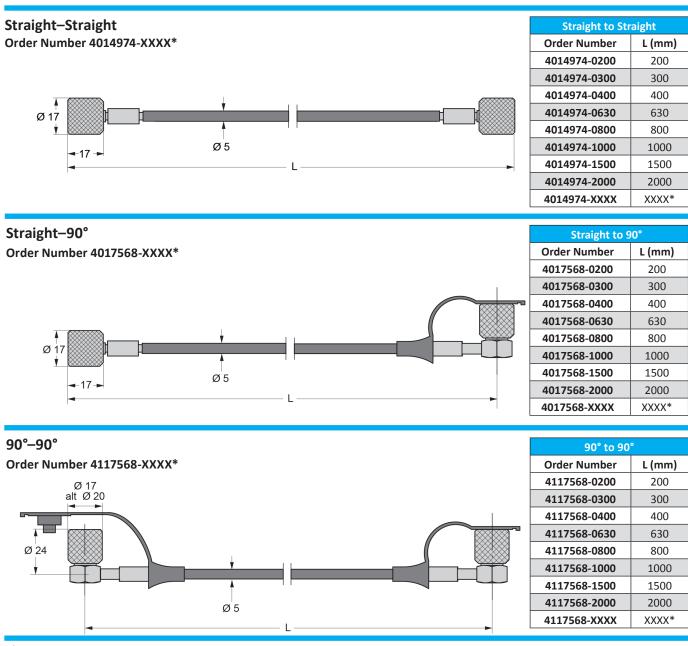
Hose System

A very compact and versatile O-ring sealed system that allows connections to be tightened by hand. In addition, G 1/8 and G 1/4 ports can be connected to the EZ-Hose System using an appropriate adapter. **Not for use with compression tanks.** A wide range of standard lengths is available with custom lengths from 150mm up.

OD	5mm
ID	Ø2mm
Max. Working Pressure	
Min. Burst Pressure	
Min. Bend Radius	
Min. Crimped Hose Length	. 150mm (total length with sleeves)



EZ-Hose Clip Order Number 502646 Secure hoses using an M5 screw.



* NOTE: "xxxx" = Assembled hose length in millimeters. Minimum order length is 120 mm. Simply add the hose length onto the Order Number (i.e., 4014974–2500 for a Straight-Straight assembly with a 2500 mm hose length).

CNOMO Hand Connection System

EZ Hose System

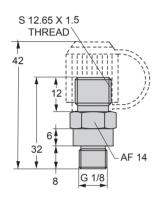
Separate Components for EZ Hose System **Separate Components** for EZ Hose System (3) **Order Number** Description 1 **EZHF-HOSEEND** Order Ferrule Separately 2 **EZHF-FERRULE** Ferrule (2)(4)3 EZH-2 Hose 4 EZHF-HOSEEND-90 Comes with Ferrule and Cap

Adapters

Charge Port Adapters

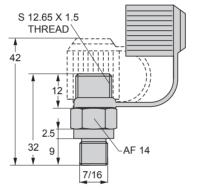
750N

Hose adapters are available with three different threads: G 1/8, G 1/4, and 7/16. The G 1/8 is available with and without a check valve. We recommend the version without the check valve for gas springs.

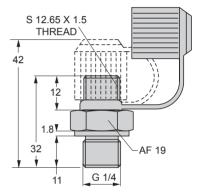


Order Number 4014973-G 1/8 (with check valve)

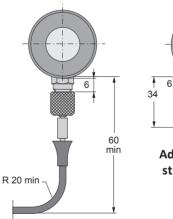
Order Number 4114973-G 1/8 (without check valve)

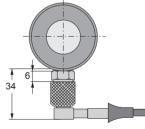


Order Number 4114973-7/16 (without check valve)



Order Number 4014973-G 1/4 (with check valve)

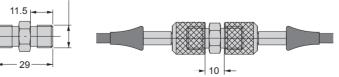




Adapter example with straight and 90° hose

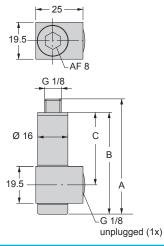
Hose-to-Hose Connector Union Order Number 503674



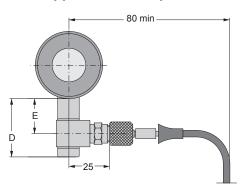


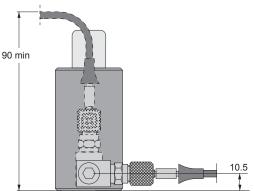
EZ-Hose Adapters for Gas Springs with G 1/8 Port

	EZ-Hose Adapters										
Order	Α	В	С	D	E	FFC Mounting Limitations					
Number	mm	mm	mm	mm	mm	FFC Mounting Limitations					
4016050-01	40	32.5	17	26	11	Cannot be used with FFC mounts.					
4016050-02	54	46.5	31	40.5	25	Can be used only with FFC 500, 750, 1500 & 3000 mounts.					
4016050-03	61	53.5	38	47.5	32	Can be used with all FFC mounts.					



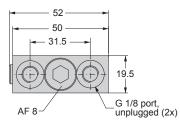
Application Example

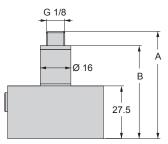


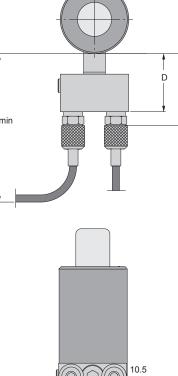


Front Adapter for Gas Springs with G 1/8 Port

Front Adapter										
Order	Α	В								
Number	mm	mm	mm	mm	mm	FFC Mounting Limitations				
4017314-01	42	34.5	95	28.5	40	Cannot be used with FFC mounts.				
4017314-02	56	48.5	110	42.5	54	Can be used only with FFC 500, 750, 1500 & 3000 mounts.				
4017314-03	63	56.5	115	49.5	61	Can be used with all FFC mounts.				







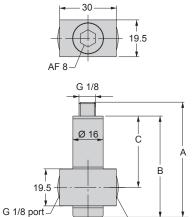
All dimensions are in millimeters unless otherwise noted.

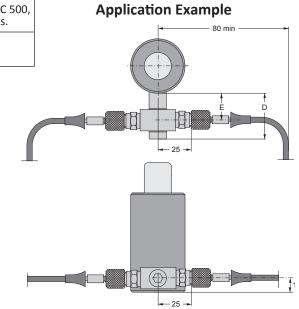
Application Example

Е

Two-Way Adapter for Gas Springs with G 1/8 Port

	Two-Way Adapter										
Order	Α	В	С	D	Е	FFC Mounting Limitations					
Number	mm	mm	mm	mm	mm	FFC Mounting Limitations					
4016051-01	40	32.5	17	26.5	11	Cannot be used with FFC mounts.					
4016051-02	54	46.5	31	40.5	25	Can be used only with FFC 500, 750, 1500 & 3000 mounts.					
4016051-03	61	53.5	38	47.5	32	Can be used with all FFC mounts.					





Four-Way Adapter for Gas Springs with G 1/8 Port

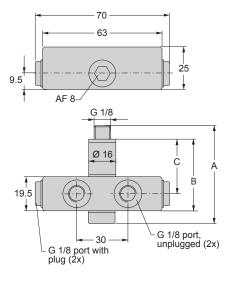
unplugged

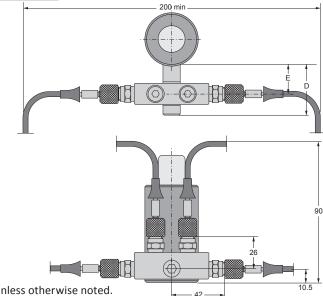
Four-Way Adapter											
Order	Α	В									
Number	mm	mm	mm	mm	mm	FFC Mounting Limitations					
4015035-01	40	32.5	17	26.5	11	Cannot be used with FFC mounts.					
4015035-02	54	46.5	31	40.5	25	Can be used only with FFC 500, 750, 1500 & 3000 mounts.					
4015035-03	61	53.5	38	47.5	32	Can be used with all FFC mounts.					

G 1/8 port

unplugged

Application Example





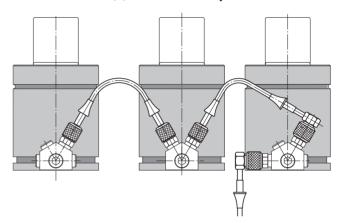


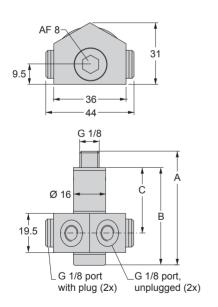
Multi-Way Adapter for Gas Springs with G 1/8 Port

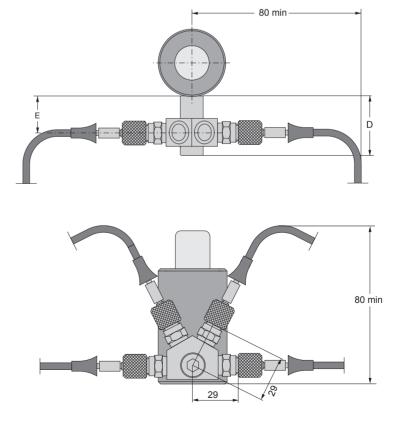
	Multi-Way Adapter											
Order	Α	В	С	D	Е	FFC Mounting Limitations						
Number	mm	mm	mm	mm	mm	FFC Wounting Limitations						
3017191-01	40	32.5	17	26.5	11	Cannot be used with FFC mounts.						
3017191-02	54	46.5	31	40.5	25	Can be used only with FFC 500, 750, 1500 & 3000 mounts.						
3017191-03	61	53.5	38	47.5	32	Can be used with all FFC mounts.						

This adapter is ideal when the distance between gas springs is short.

Application Example

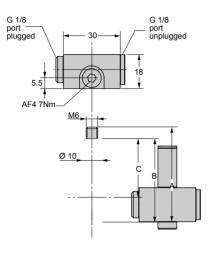


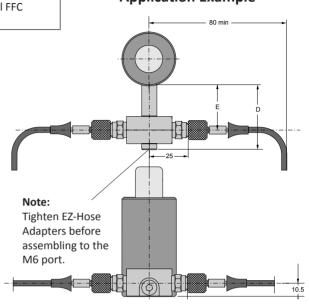




Two-Way Adapter for Gas Springs with M6 Port

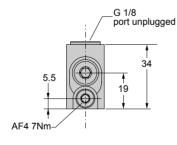
	Two	o-Way A					
Order	Α	В	С	D	E	FFC Mounting Limitations	
Number	mm	mm	mm	mm	mm		
4023519	36	30 ₁₋₈	17 800-876-4	76•440	526-5900	Can be used only with FFC 500, •750yଯୁନ୍ତିଭୀଛାସିପିପିପି ଲେଡ୍ୟାପିଝାers@H	
4023506	49	44	31	39.5	26.5	Can be used with all FFC mounts.	Application Example

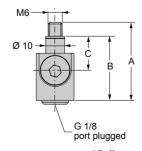




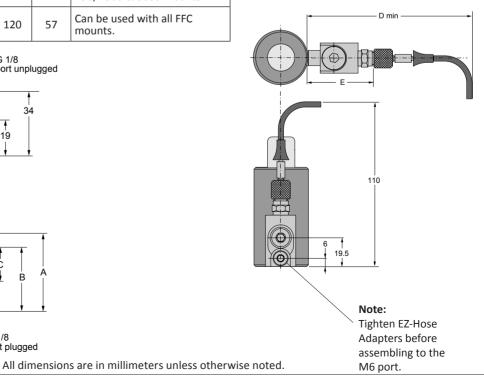
Angle Adapter for Gas Springs with M6 Port

	Angle Adapter for Gas Springs with M6 Port									
Order	Α	В	С	D	Е	FFC Mounting Limitations				
Number	mm	mm	mm	mm	mm	FFC Mounting Limitations				
4023520	39	34	18	110	45	Can be used only with FFC 500, 750, 1500 & 3000 mounts.				
4023518	51	46	30	120	57	Can be used with all FFC mounts.				





Application Example





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