

Eaton EC466-40
2.5 inch 6-spiral hose



Powering Business Worldwide

Eaton's EC466-40 powers the most demanding application



Eaton's EC466-40 2.5 inch high pressure 6-spiral hose combined with the "1W" series fitting, which incorporates Eaton's advanced DURA-SEAL™ technology, was designed as an engineered system to power the most demanding hydraulic applications. Hose assemblies with larger inner diameters reduce fluid velocities and increase flow capacity which results in more power with fewer hose assemblies required for the installation making it easier to install the assemblies in tight spaces.

Eaton DURA-SEAL hose fitting technology incorporates an engineered elastomer seal installed on the hose nipple which improves impulse life, and meet SAE and EN class zero leakage, while maximizing overall hose assembly performance. The EC466-40 hose and DURA-SEAL fitting technology make this Eaton engineered system the highest performing -40 hose in the market.

Features

- 6-spiral wire construction: -40 size
- Operating temperature range: -40°C to +100°C (-40°F to +212°F)
- Qualified with Eaton 1W internal skive crimp fittings with Eaton DURA-SEAL technology
- Highly abrasion resistant Eaton DURA-TUFF MSHA approved cover
- Class 0 cool down leakage in accordance to SAE J1146
- Eaton certified manufactured hose assemblies

Benefits







- High operating pressure; 350 bar (5,100 psi)
- DURA-SEAL technology extends hose assembly life, resulting in more uptime and reduced operating costs
- DURA-TUFF hose cover is 8 times more abrasion resistant than standard rubber covered hoses
- No hydraulic fluid leakage when machine is shut off and system cools down



EC466-40

Six spiral hose



#													
Part number		Nominal I.D.		Nominal O.D.		Max. operating pressure		Min. burst pressure		Min. bend radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs./ft.
EC466-40	63	63,5	2.50	84,7	3.34	350	5100	1266	18360	780,0	30.71	7,98	5.35

Construction

- 6-heavy wire spiral reinforcement
- Synthetic rubber tube
- Eaton DURA-TUFF high abrasion resistant cover

Operating temperature

- -40°C to +100°C (-40°F to +212°F)

Applications

- High pressure hydraulic system service with petroleum, fire-resistant and water-base fluids, fuel, and lubricating systems
- Critical applications in forestry, construction, agriculture, mining, marine propulsion and oil and gas top drives

Qualified fittings

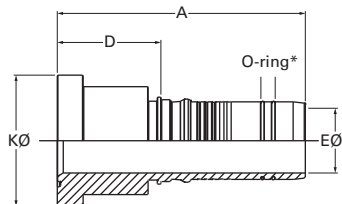
- Eaton 1W series internal skive crimp fittings (contact Eaton for manufactured hose assemblies)

EC466-40

Six spiral hose

ISO 6162-2 Flange

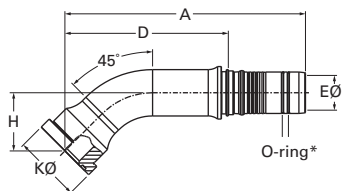
Straight



#	Terminal end	KØ	Hose size	A	D	EØ	Weight
Part number	Dash size	mm in	DN Dash size	mm in	mm in	mm in	kg lbs
1W40FH40*	-40	108,0 4.25	63 -40	204,8 8.06	75,0 2.95	53,7 2.11	4,23 9.34

ISO 6162-2 Flange

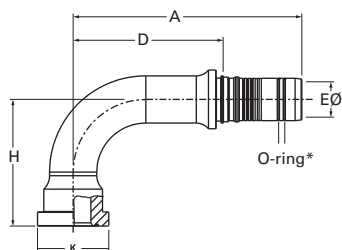
45° Elbow



#	Terminal end	KØ	Hose size	A	D	EØ	H	Weight
Part number	Dash size	mm in	DN Dash size	mm in	mm in	mm in	mm in	kg lbs
1W40FHA40*	-40	108,0 4.25	63 -40	458,0 18.03	338,9 13.34	53,7 2.11	89,9 3.54	7,82 17.25

ISO 6162-2 Flange

90° Elbow



#	Terminal end	KØ	Hose size	A	D	EØ	H	Weight
Part number	Dash size	mm in	DN Dash size	mm in	mm in	mm in	mm in	kg lbs
1W40FHB40*	-40	108,0 4.25	63 -40	346,1 13.63	227,0 8.94	53,7 2.11	191,6 7.54	7,82 17.25

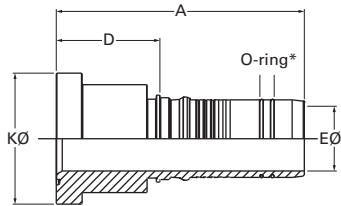
*Requires installation of 2 each O-ring part# 05.071-58.42x2.62 (must be ordered separately). O-rings must be lubricated with PAG oil just prior to inserting nipple into hose and crimping.

EC466-40

Six spiral hose

ISO 6164 Flange

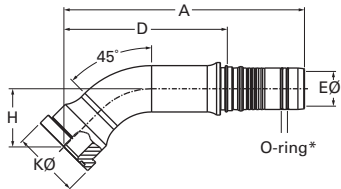
Straight



#	Terminal end	KØ	Hose size	A	D	EØ	Weight
Part number	Dash size	mm in	DN Dash size	mm in	mm in	mm in	kg lbs
1W40FN40*	-40	104,0 4.09	63 -40	233,7 9.2	103,9 4.09	53,7 2.11	4,23 9.34

ISO 6164 Flange

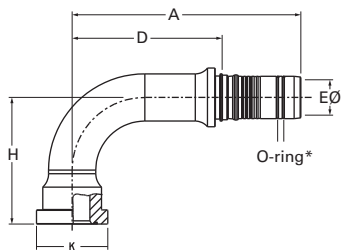
45° Elbow



#	Terminal end	KØ	Hose size	A	D	EØ	H	Weight
Part number	Dash size	mm in	DN Dash size	mm in	mm in	mm in	mm in	kg lbs
1W40FNA40*	-40	104,0 4.09	63 -40	458,0 18.03	338,9 13.34	53,7 2.11	89,9 3.54	7,82 17.25

ISO 6164 Flange

90° Elbow



#	Terminal end	KØ	Hose size	A	D	EØ	H	Weight
Part number	Dash size	mm in	DN Dash size	mm in	mm in	mm in	mm in	kg lbs
1W40FNB40*	-40	104,0 4.09	63 -40	346,1 13.63	227,0 8.94	53,7 2.11	191,6 7.54	7,82 17.25

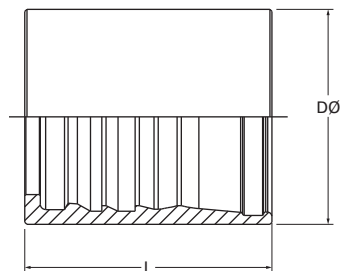
*Requires installation of 2 each O-ring part# 05.071-58.42x2.62 (must be ordered separately). O-rings must be lubricated with PAG oil just prior to inserting nipple into hose and crimping.

EC466-40

Six spiral hose

Socket

(Internal/external skive)

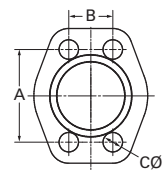


#	Hose size	Lenght "L"	DØ
Part number	DN Dash size	mm in	mm in
1WB40	63 -40	117,8 4.64	102,5 4.04

Note: Internal and external skiving of EC466-40 inner tube and cover is required for final assembly and crimping of hose fittings. Only Eaton factory crimp of EC-466-40 assemblies are available, unless the customer has the special internal/external skive tooling, crimp dies, and assembly training required to properly manufacture hose assemblies. Contact Eaton Tech Support for the required equipment and proper assembly procedures to crimp EC466-40 hose and hose fittings.

ISO 6162-2 Split flange (two piece)

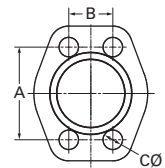
Code 62



#	Nominal flange size (inch)	Buna-N O-ring	Bolts (4) required	Lock washer (4) required	A	B	CØ	Bolt torque
Part number	SAE flange size (inch)				mm in	mm in	mm in	kg lbs
FW1955-40s	2.5	FF9446-232	FF9442-1452	210104-14s	123,8 4.87	58,8 2.31	26 1.02	623 460

ISO 6162-2 Captive flange (one piece)

Code 62

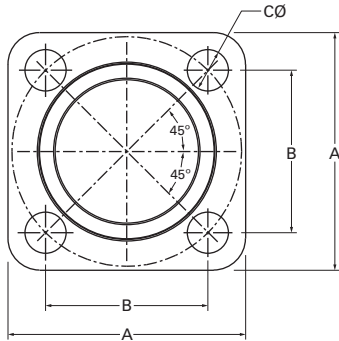


#	Nominal flange size (inch)	Buna-N O-ring	Bolts (4) required	Lock washer (4) required	A	B	CØ	Bolt torque
Part number	SAE flange size (inch)				mm in	mm in	mm in	kg lbs
FW1954-40s	2.5	FF9446-232	FF9442-1452	210104-14s	123,8 4.87	58,8 2.31	26 1.02	623 460

EC466-40

Six spiral hose

ISO 6164 Captive flange (one piece)



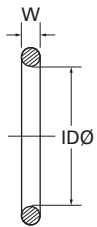
#	Nominal flange size		O-ring	Bolts (4) required	Lock washer (4) required	A		B		CØ		Bolt torque	
	inch	DN				mm	in	mm	in	mm	in	N/M	ft/lbs
FW1956-40s	2.5	63	FF9446-337	F9089-M24-90	FF9111-M24	150,0	5.9	102,5	4.03	26	1.02	791	583

ISO 6164 specification

- O-ring (ISO 3601-1-337A-75.5x5.33N)
- Bolts (M24x3; length 90; thread length 37,5mm)
- Washer (ISO 7089 hardened)

Flange O-ring (material option)

Code 62



#	Hose size		Width "W"		IDØ		Material
	DN	Dash size	mm	in	mm	in	
FF9446-232	63	-40	3,5	0.138	69,4	2.73	Buna-N
FF9016-232	63	-40	3,5	0.138	69,4	2.73	EPDM
22046-232	63	-40	3,5	0.138	69,4	2.73	Viton

Eaton
Hydraulics Group USA
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952-937-9800
Fax: 952-294-7722
www.eaton.com/hydraulics

Eaton
Hydraulics Group Europe
Route de la Longeraie 7
1110 Morges
Switzerland
Tel: +41 (0) 21 811 4600
Fax: +41 (0) 21 811 4601

Eaton
Hydraulics Group Asia Pacific
Eaton Building
No.7 Lane 280 Linhong Road
Changning District,
Shanghai 200335
China
Tel: (+86 21) 5200 0099
Fax: (+86 21) 2230 7240

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

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