

Aeroquip®

Series 1965 & 2055 Low Profile Push-Pull Quick Disconnect Couplings

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Powering Business Worldwide

Series 1965 & 2055 Quick Disconnect Couplings

Eaton's Aeroquip 1965 and 2055 Series Couplings are self-sealing, low profile quick disconnect couplings which offer long, dependable service for both high and low pressure fluid conveyance systems.

The 1965 Series Coupling is constructed of high strength, fire resistant stainless steel for reliable 2000 psig (137.89 bar) hydraulic service. All coupling sizes have been qualified to the performance requirements of MIL-C-25427A.

The 2055 Series coupling is constructed of lightweight aluminum and is excellent for

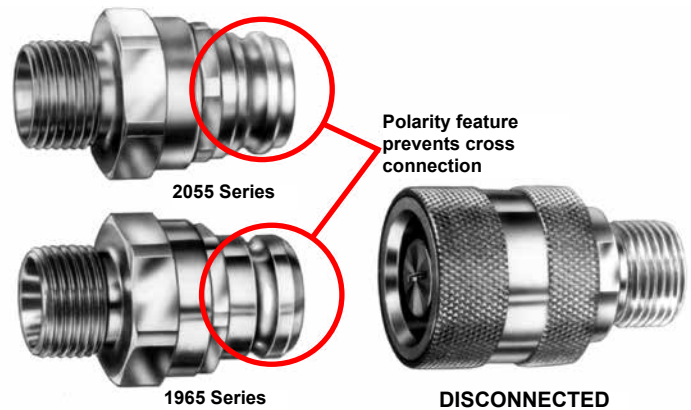
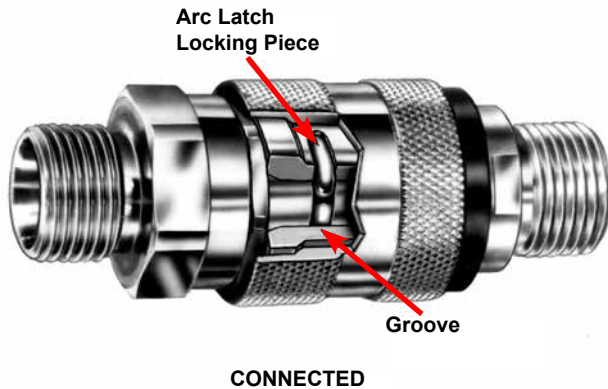
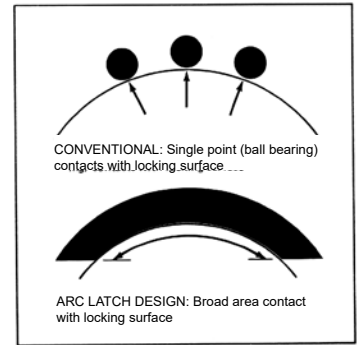
low pressure hydraulic lube oil or coolant systems with operating pressures up to 1000 psig (68.94 bar).

Both coupling styles incorporate an innovative Arc Latch™ locking mechanism. The couplings are connected and disconnected with a simple push-pull motion. The self-sealing design practically eliminates fluid loss or air inclusion and minimizes pressure drop. These features provide outstanding reliability and safety in addition to speeding fluid system maintenance.

Eaton's Aeroquip Arc Latch locking design provides contact surfaces over a broad surface

area. This broad contact area permits low unit loading and helps prevent brinnelling and undue wear of the metal locking surface. The wider surface contact also contributes to a more effective locking action and gives the couplings greater capability to withstand vibration environments.

For added safety, a polarity feature prohibits cross connection of high and low pressure coupling halves. In addition, a green band appears behind the coupling sleeve when securely locked.



1965 SERIES 3000 PSIG COUPLING

Basic Material: Stainless Steel
 Packings: Nitrile (Petroleum Based) or EPR (Skydrol® systems)
 PTFE Back-up Rings
 Application: MIL-H-5606, MIL-H-83282, Hydraulic, Skydrol
 Temperature Range: -65°F to +275°F (-54°C to +135°C)
 Pressures:
 Operating 3000 psig (206.84 bar)
 Proof 4500 psig (310.26 bar)
 Minimum Burst 7500 psig (517.10 bar)

Meets the performance requirements of MIL-C-25427A

2055 SERIES 1000 PSIG COUPLING

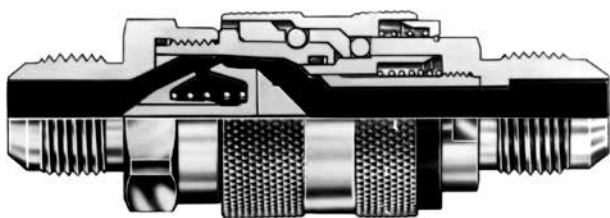
Basic Material: Aluminum
 Packings: Nitrile (Petroleum Based) or EPR (Skydrol Systems)
 Application: MIL-H-5605, MIL-H-83282, Hydraulic Systems, Skydrol, Lube Oil, Coolants
 Temperature Range: -65°F to +275°F (-54°C to +135°C)
 Pressures:
 Operating 1000 psig (68.94 bar)
 Proof 1500 psig (103.42 bar)
 Minimum Burst 500 psig (34.47 bar)

Meets the performance requirements of MIL-C-25427A, except operating pressures

To find the net pressure loss (difference between the coupling and an equivalent length of straight tube) for a given coupling size at a given flow rate:

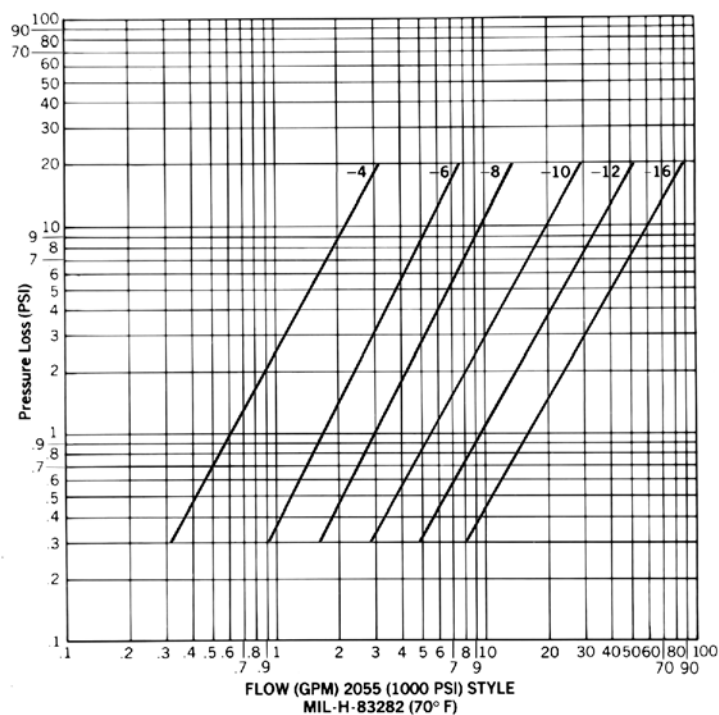
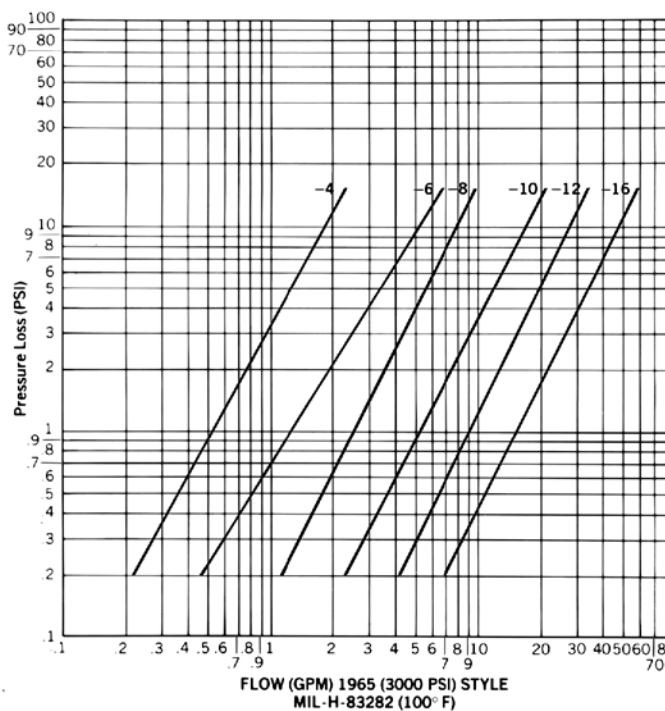
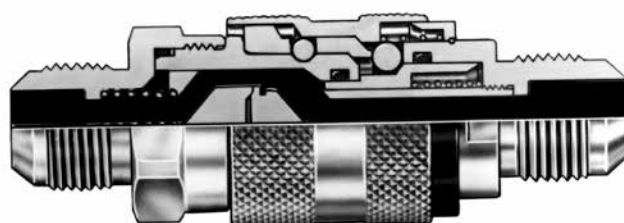
1. Find the flow rate at the bottom of the chart and read up until the line intersects the curve for the coupling size in question.
2. Read across to find the pressure loss.

1965 SERIES 3000 PSIG LOW PROFILE COUPLINGS



Cut-away showing fluid flow

2055 SERIES 1000 PSIG LOW PROFILE COUPLINGS



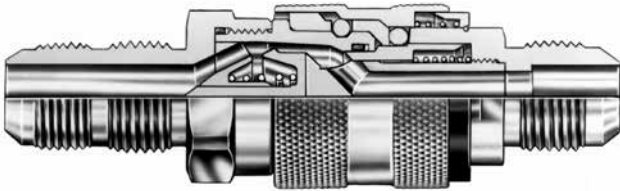
1965 Series 3000 psig Low Profile Couplings

Sizes, Applications and Part Numbers

Eaton's Aeroquip couplings are available with all standard type end fitting combinations. To order, select the style, application, size and corresponding part number for the coupling halves or complete coupling assembly from the table below. (Example: Style 1. MIL-H-5606, -4 size, complete assembly AE83202E).

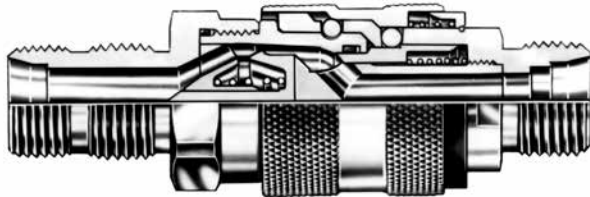
Eaton's couplings for other fluids and end fittings are also available. Contact your nearest Eaton distributor or the Eaton sales service engineering department at 517-787-8121.

STYLE I MS33657 & MS33656 Ends



Size	Operating Pressure (psig/bar)	Coupling Assembly		Coupling Half Bulkhead Mounting		Coupling Half Hose Attaching		Coupling Assembly Weight (lbs/kg)
		MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	
-4	3000/206.84	AE82302E	AE82310E	AE82303E	AE82311E	AE82304E	AE82312E	.242/.109
-6	3000/206.84	AE82302G	AE82310G	AE82303G	AE82311G	AE82304G	AE82312G	.380/.172
-8	3000/206.84	AE82302H	AE82310H	AE82303H	AE82311H	AE82304H	AE82312H	.555/.251
-10	3000/206.84	AE82302J	AE82310J	AE82303J	AE82311J	AE82304J	AE82312J	.947/.429
-12	3000/206.84	AE82302K	AE82310K	AE82303K	AE82311K	AE82304K	AE82312K	1.268/.575
-16	3000/206.84	AE82302M	AE82310M	AE82303M	AE82311M	AE82304M	AE82312M	1.969/.893

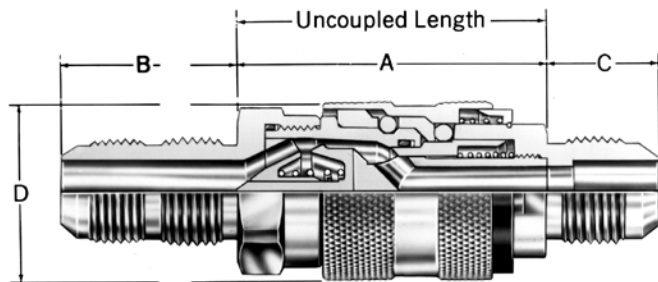
STYLE II MS33515 & MS33514 Ends



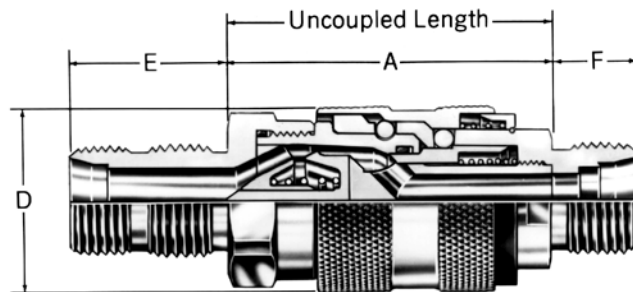
Size	Operating Pressure (psig/bar)	Coupling Assembly		Coupling Half Bulkhead Mounting		Coupling Half Hose Attaching		Coupling Assembly Weight (lbs/kg)
		MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	
-4	3000/206.84	AE82306E	AE82314E	AE82307E	AE82315E	AE82308E	AE82316E	.236/.170
-6	3000/206.84	AE82306G	AE82314G	AE82307G	AE82315G	AE82308G	AE82316G	.370/.167
-8	3000/206.84	AE82306H	AE82314H	AE82307H	AE82315H	AE82308H	AE82316H	.537/.243
-10	3000/206.84	AE82306J	AE82314J	AE82307J	AE82315J	AE82308J	AE82316J	.908/.411
-12	3000/206.84	AE82306K	AE82314K	AE82307K	AE82315K	AE82308K	AE82316K	1.221/.553
-16	3000/206.84	AE82306M	AE82314M	AE82307M	AE82315M	AE82308M	AE82316M	1.875/.850

1965 Series Coupling Dimensions

Style I

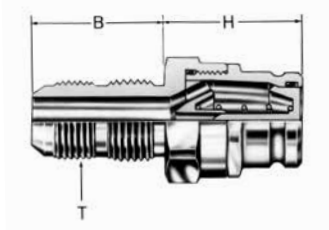


Style II

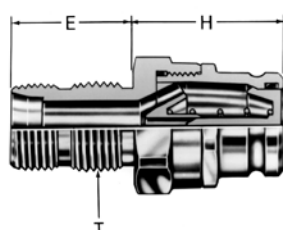


Coupling Half, Bulkhead Mounting

For Style I

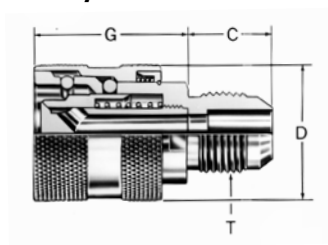


For Style II

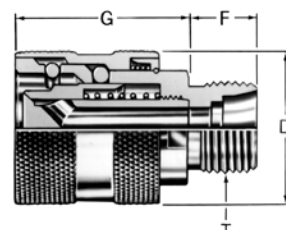


Coupling Half, Hose Attaching

For Style I



For Style II



Dash Size	Letter Code	Tube Size	A	B	C	D Max	E	F	G	H	Thd "T"	Uncoupled Length, Max
-4	E	0.25/6.35	1.748/44.39	1.047/26.59	0.550/13.97	0.910/23.11	0.969/24.61	0.453/11.50	1.21/30.73	1.014/25.75	4375-20 UNJF-3A	2.250/57.15
-6	G	0.375/9.52	1.943/49.35	1.125/28.57	0.556/14.12	1.130/28.70	1.015/25.78	0.469/11.91	1.32/33.52	1.092/27.73	5625-18 UNJF-3A	2.440/61.97
-8	H	0.50/12.70	2.159/54.83	1.281/32.53	0.657/16.68	1.270/32.25	1.156/29.36	0.562/14.27	1.42/36.06	1.261/32.02	7500-16 UNJF-3A	2.710/68.83
-10	J	0.625/15.87	2.522/64.05	1.422/36.11	0.758/19.25	1.530/38.86	1.297/32.94	0.625/15.87	1.75/44.45	1.500/38.10	8750-14 UNJF-3A	3.280/83.31
-12	K	0.75/19.05	2.612/66.34	1.593/40.46	0.864/21.94	1.740/44.19	1.406/35.71	0.688/17.47	1.906/48.41	1.510/38.35	1.0625-12 UNJF-3A	3.430/87.12
-16	M	1.00/25.40	3.017/76.63	1.593/40.46	0.911/23.13	2.090/53.08	1.406/35.71	0.688/17.47	2.16/54.86	1.760/44.70	1.3125-12 UNJF-3A	3.940/100.07

Dimensions: inches/mm

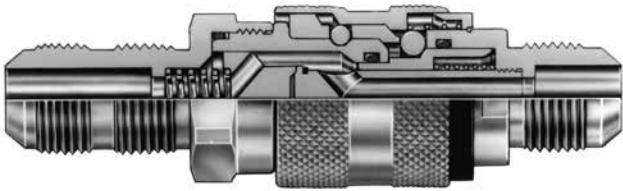
2055 Series 1000 psig Low Profile Couplings

Sizes, Applications and Part Numbers

Eaton's Aeroquip couplings are available with all standard type end fitting combinations. To order, select the style, application, size and corresponding part number for the coupling halves or complete coupling assembly from the table below. (Example: Style 1. MIL-H-5606, -4 size, complete assembly AE83231E).

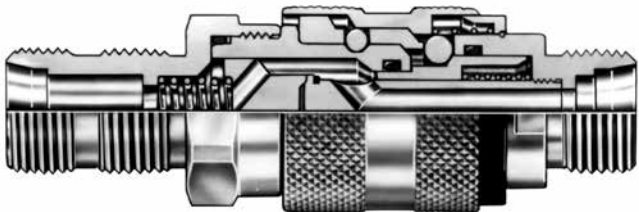
Eaton's couplings for other fluids and end fittings are also available. Contact your nearest Eaton distributor or the Eaton sales service engineering department at 517-787-8121.

STYLE I MS33657 & MS33656 Ends



Size	Operating Pressure (psig/bar)	Coupling Assembly		Coupling Half Bulkhead Mounting		Coupling Half Hose Attaching		Coupling Assembly Weight (lbs/kg)
		MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	
-4	1000/68.94	AE82318E	AE82326E	AE82319E	AE82327E	AE82320E	AE82328E	.097/.044
-6	1000/68.94	AE82318G	AE82326G	AE82319G	AE82327G	AE82320G	AE82328G	.159/.072
-8	1000/68.94	AE82318H	AE82326H	AE82319H	AE82327H	AE82320H	AE82328H	.240/.108
-10	1000/68.94	AE82318J	AE82326J	AE82319J	AE82327J	AE82320J	AE82328J	.412/.186
-12	1000/68.94	AE82318K	AE82326K	AE82319K	AE82327K	AE82320K	AE82328K	.578/.262
-16	1000/68.94	AE82318M	AE82326M	AE82319M	AE82327M	AE82320M	AE82328M	.904/.410

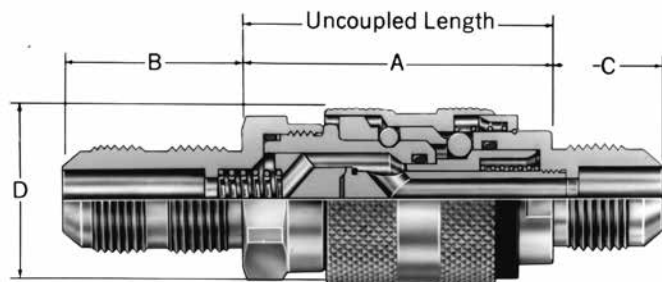
STYLE II MS33515 & MS33514 Ends



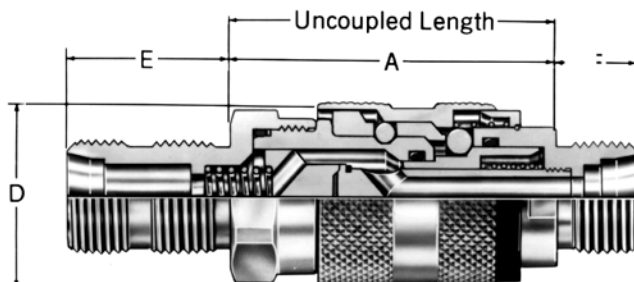
Size	Operating Pressure (psig/bar)	Coupling Assembly		Coupling Half Bulkhead Mounting		Coupling Half Hose Attaching		Coupling Assembly Weight (lbs/kg)
		MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	MIL-H-5606 MIL-H-83282	Skydrol	
-4	1000/68.94	AE82322E	AE82330E	AE82323E	AE28331E	AE82324E	AE82332E	.095/.043
-6	1000/68.94	AE82322G	AE82330H	AE82323G	AE28331G	AE82324G	AE82332G	.155/.070
-8	1000/68.94	AE82322H	AE82330H	AE82323H	AE28331H	AE82324H	AE82332H	.233/.105
-10	1000/68.94	AE82322J	AE82330J	AE82323J	AE28331J	AE82324J	AE82332J	.397/.180
-12	1000/68.94	AE82322K	AE82330K	AE82323K	AE28331K	AE82324K	AE82332K	.561/.254
-16	1000/68.94	AE82322M	AE82330M	AE82323M	AE28331M	AE82324M	AE82332M	.871/.395

2055 Series Coupling Dimensions

Style I

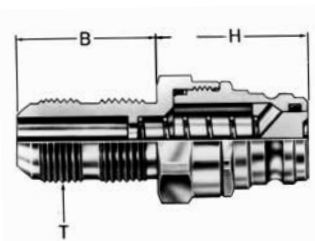


Style II

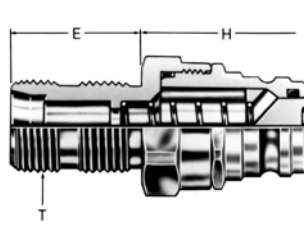


Coupling Half, Bulkhead Mounting

For Style I

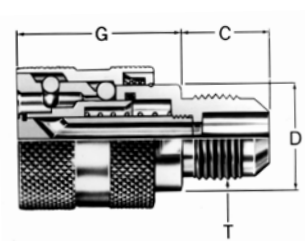


For Style II

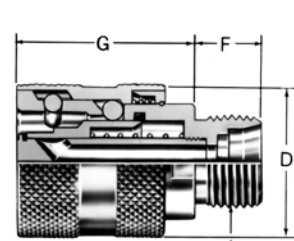


Coupling Half, Hose Attaching

For Style I



For Style II



Dash Size	Letter Code	Tube Size	A	B	C	D Max	E	F	G	H	Thd "T"	Uncoupled Length, Max
-4	E	0.25/6.35	1.748/44.39	1.047/26.59	0.550/13.97	0.910/23.11	0.969/24.61	0.453/11.50	1.244/31.59	1.014/25.75	4375-20 UNJF-3A	2.290/58.16
-6	G	0.375/9.52	1.943/49.35	1.125/28.57	0.556/14.12	1.130/28.70	1.015/25.78	0.469/11.91	1.320/33.52	1.092/27.73	5625-18 UNJF-3A	2.440/61.97
-8	H	0.50/12.70	2.159/54.83	1.281/32.53	0.657/16.68	1.270/32.25	1.156/29.36	0.562/14.27	1.420/36.06	1.261/32.02	7500-16 UNJF-3A	2.710/68.83
-10	J	0.625/15.87	2.522/64.05	1.422/36.11	0.758/19.25	1.530/38.86	1.297/32.94	0.625/15.87	1.750/44.45	1.500/38.10	8750-14 UNJF-3A	3.280/83.31
-12	K	0.75/19.05	2.612/66.34	1.593/40.46	0.864/21.94	1.740/44.19	1.406/35.71	0.688/17.47	1.906/48.41	1.510/38.35	1.0625-12 UNJF-3A	3.430/87.12
-16	M	1.00/25.40	3.017/76.63	1.593/40.46	0.911/23.13	2.090/53.08	1.406/35.71	0.688/17.47	2.160/54.86	1.760/44.70	1.3125-12 UNJF-3A	3.940/100.07

Dimensions: inches/mm

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