



QO LINE



CN

EN

350 bar 液压用快插接头

专为350bar工作压力设计与测试的插入式管接头。其紧凑创新型设计可在狭窄的阀块空间及复杂装配工况下实现安全快速的简便安装，且无需借助工具。接头与堵头之间的液压密封通过外置O型圈实现，该设计使接头在O型圈损坏或磨损时可直接更换，极大提升了可维护性。

Push-in Fittings for Hydraulics, 350 bar

Push-in fittings designed and tested to guarantee a working pressure of 350 bar. The compact, innovative design allows for safe, quick and easy assemblies with no need for assembly tools on reduced manifold spaces as well as during difficult assembly operations. The hydraulic tightness between the fitting and the plug is guaranteed by an oring outside of the fitting itself. This feature enables the fitting serviceability in case of oring damage or wear out.

QO Line

- 1** 本体
Body

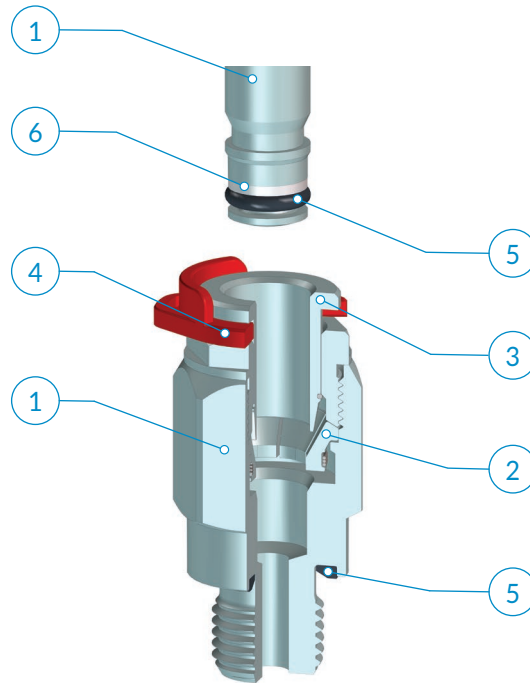
镀锌钢 11SMnPb37
Zinc plated steel 11SMnPb37
- 2** 卡爪
Gripping ring
- 3** 释放环
Release ring
- 4** 安全环
Safety ring


PA66
- 5** 密封圈
Seals

NBR 90 Sh
- 6** 支撑环
Backup ring

PTFE

- 
 -30° ÷ 100°C
- 
 350 bar
- 
 SILICONE FREE
- 
 RoHS
- 
 REACH
- 
 PATENTED



		G1/4	G3/8	G1/2	G3/4	7/16-20	9/16-18	3/4-16	11/16-12	M14x1,5	M16x1,5	M18x1,5	M20x1,5
	D	4	6	8	10	12	14	16	18	20	22	24	26
	A	6	8	10	12	14	16	18	20	22	24	26	28
	S	8	10	12	14	16	18	20	22	24	26	28	30
	H*	12	14	16	18	20	22	24	26	28	30	32	34

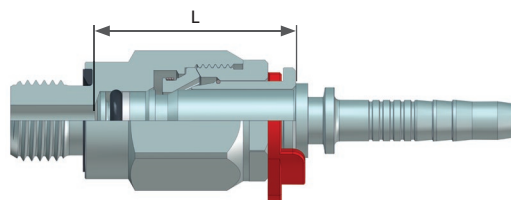
*Dash = 1/16"

建议的连接管路:
带强化编织层的耐油合成橡胶管路;用于固定端管的套箍取决于管路类型。

Recommended tubings:
Synthetic oil-resistant rubber hose with braids reinforcement; the ferrule for the hose terminal will depend on the hose type.

应用领域:
液压系统

Application fields:
Hydraulics.



Plug-in DN Dash	L
4	31
6	33,5
8	37,5
12	42

安装说明

ASSEMBLY INSTRUCTIONS

- 1 确认端管上正确装有支撑环和密封圈，并已正确润滑。
- 2 将端管插入接头内，并推至底部，并确认安全环位于释放环下方。

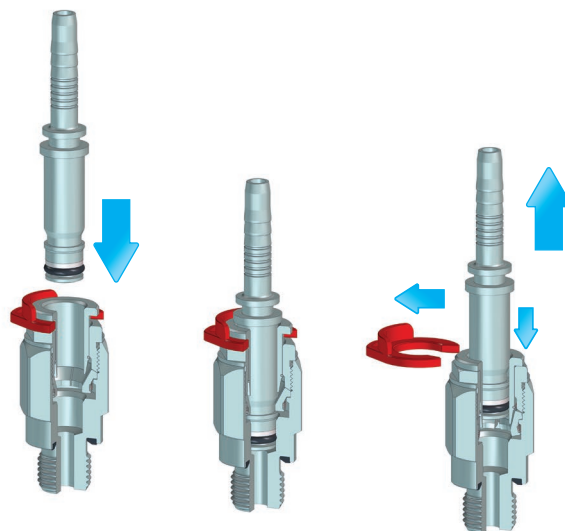
- 1 Make sure that the back up ring and the tightness ring are assembled and duly greased on the straight hose connection.
- 2 Push the straight hose connection all the way into the fitting until it bottoms; the hose connection can be assembled also if the safety ring is in place under the release ring.

抽取管路

Tube release

- 3 取下释放环下方的的安全环；
- 4 垂直按压释放环，同时将端管从接头中拔出。

- 3 Remove the safety ring under the release ring
- 4 Press the release ring and pull the hose connection out of the fitting.



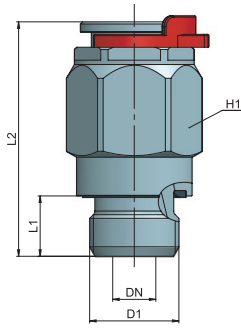
! 完成连接后，请确保管路上不承受外力；此外，请确保管路连接的最小弯曲半径符合本样册第376页之规定。为了避免管路接头因为释放环意外受力而断开，工作过程中必须确保安全环总是在正确的位置上。安全环连接有一条固定缆线。安全环套件可单独购买，其中包含固定缆线。螺纹拧紧时，请参考第10页列出的建议扭矩。

! Once the tubing is connected to the fitting, make sure that the tubing is not subject to any tensile strength and that the min. recommended bending radius stated in the tubing section of this catalogue is complied with (see page 376). In order to prevent an involuntary hose disconnection due to an accidental pressure on the fitting release ring, make sure that the safety ring is always in place when the fitting is pressurized. The safety ring shape allows for a fixing wire to be connected. A KIT is also available and it contains the safety ring pre-assembled with the fixing wire. To tighten threads, please check out our tightening torque chart illustrated at page 10.

QO 12 - BSPP

BSPP螺纹直管快插接头

Straight push-in fitting, BSPP thread



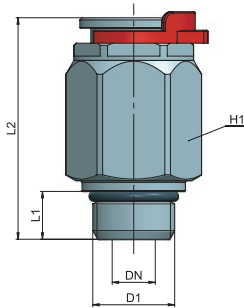
类型	DN Dash	D1	L1	L2	H1	g Δ
12 04 G1/4	04	G1/4	12	46	20	60,9
12 06 G3/8	06	G3/8	12	48	24	85,5
12 08 G1/2	08	G1/2	14	54,4	28	128,7
12 12 G3/4	12	G3/4	16	62,1	38	231,5

BSPP (ISO 1179-2)

QO 12 - UNF

UNF螺纹直管快插接头

Straight push-in fitting, UNF thread



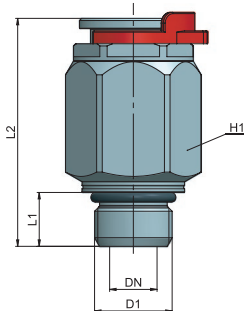
类型	DN Dash	D1	L1	L2	H1	g Δ
12 04 7/16 UNF ORB	04	7/16-20 UNF	9,1	42,6	20	57,1
12 06 9/16 UNF ORB	06	9/16-18 UNF	10	45,3	24	81,4
12 08 3/4-16 UNF ORB	08	3/4-16 UNF	11,1	51,4	28	125,6
12 12 1-1/16 UN ORB	12	1 1/16-12 UN	15,1	60,6	38	252,7

SAE Oring Boss - UNF Stud (ISO 11926-3)

QO 12

公制螺纹直管快插接头

Straight push-in fitting, metric



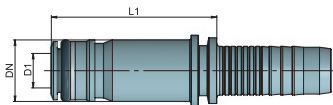
类型	DN Dash	D1	L1	L2	H1	g Δ
12 04 M14x1,5	04	M14x1,5	11	44	20	36,8
12 06 M16x1,5	06	M16x1,5	11,5	46,7	24	84,7
12 08 M18x1,5	08	M18x1,5	12,5	52,9	28	79,3
12 12 M22x1,5	12	M22x1,5	13	60,1	38	237,0

Metric Stud (ISO 6149-3)

QO 90

软管直接头

Hose connection, straight



类型	DN Dash	D1 (inch)	D1 (mm)	L1 (mm)	g Δ
90 04 1/4	04	1/4	6,2	38,2	21,6
90 06 3/8	06	3/8	9,5	40,3	38,2
90 08 1/2	08	1/2	12,9	45,6	64,3
90 12 3/4	12	3/4	19	52,1	132,5

表面镀锌处理11SMnPb37 - Body in Hardened Zinc plated steel 11SMnPb37



初次安装时, 请确保插头上的O型圈被充分润滑。



During the first assembly, make sure that the oring on the plug is well lubricated/greased.

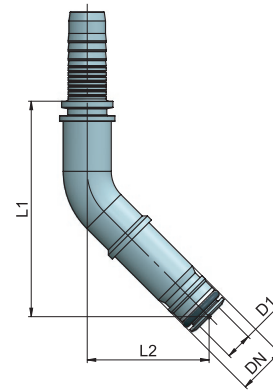
QO 91

45°软管接头

45° hose connection

类型	DN Dash	D1 (inch)	D1 (mm)	L1 (mm)	L2 (mm)	g Δ
91 04 1/4	04	1/4	6,2	62,2	37,6	41,7
91 06 3/8	06	3/8	9,5	67,6	40,3	72,3
91 08 1/2	08	1/2	12,9	76	43	122,2
91 12 3/4	12	3/4	19	97,5	56,4	275,0

表面镀锌处理11SMnPb37 - Body in Hardened Zinc plated steel 11SMnPb37



初次安装时, 请确保插头上的o型圈被充分润滑。



During the first assembly, make sure that the oring on the plug is well lubricated/greased.

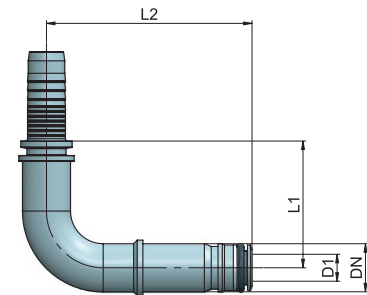
QO 92

90°软管接头

90° hose connection

类型	DN Dash	D1 (inch)	D1 (mm)	L1 (mm)	L2 (mm)	g Δ
92 04 1/4	04	1/4	6,2	33,3	62	47,6
92 06 3/8	06	3/8	9,5	37,9	67,5	82,2
92 08 1/2	08	1/2	12,9	44,7	72,5	141,3
92 12 3/4	12	3/4	19	59,8	98,5	327,0

表面镀锌处理11SMnPb37 - Body in Hardened Zinc plated steel 11SMnPb37



初次安装时, 请确保插头上的o型圈被充分润滑。



During the first assembly, make sure that the oring on the plug is well lubricated/greased.

SAFETY KIT

类型

SAFETY KIT DASH 04

SAFETY KIT DASH 06

SAFETY KIT DASH 08

SAFETY KIT DASH 12

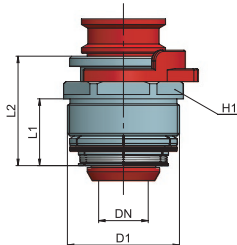


AP 55
AR 63
AV 221
CO 157
CX 255
EV 217
GU 119
GU Safety 135
GX 281
GX Safety 291
HP 317
MA 27
MB 41
MC 83
MF 235
MM 333
MO 93
MP 323
MT 339
MV 171
MX 241
MY 229
OX 261
PA 113
PE 79
PM 329
PN 67
PT 347
PU 131
PU Safety 149
PUX 287
PV 203
PVX 311
PX 249
QO 363
RA 101
RF 269
RT 355
RX 275
Tools 369
Tubings 375
VF 295
VT 359
VX 299

QO 10

埋入式接头

QO10埋入接头是解决空间狭窄的优异方案，紧凑的产品设计，使得它安装在阀组模板上几乎不占空间。



Push-in cartridge fitting

The QO10 cartridge is the right solution in case of lack of space; the compact design allows for the assembly of the cartridge in such a way that it almost completely disappears once assembled in its own body (manifolds, valves etc).

Type	DN Dash	D1	L1	L2	H1	g
10 04 00	04	M18x1	13,2	21,7	17	21,9
10 06 00	06	M22x1	14	23,2	21	32,3
10 08 00	08	M26x1	15,5	25,4	25	47,3
10 12 00	12	M34x1	18,4	27,8	32	81,0

钻孔示意图

- 按照尺寸图加工埋入孔基座；
- 如图所示，将埋入接头垫片放置到基座底部；
- 在埋入接头螺纹上涂抹一薄层螺纹锁固剂；
- 将埋入接头拧入基座底部，确保到底。

Cartridge seat drilling plan

- Machine the cartridge seating according to the drawing stated below;
- Place at the bottom of the seating the distance ring provided with the cartridge, as shown in the picture;
- Apply a light layer of threadlocking sealant on the cartridge thread;
- Screw the cartridge all the way into its seating until it bottoms.

DN (Dash)	D1	D2	D3	D4	L1	L2	L3	L4
04	M18x1	16,2	10,8	9,4	8	10,6	14,4	23,1
06	M22x1	20	14	12,25	8,5	11	15,3	24,3
08	M26x1	24	17,8	16,2	9	12,1	16,9	27,9
12	M34x1	32,2	25	23	12	15	20,6	32,6

