

EMA1/EMA3/EMA4-Test Point fitting

- For pressure monitoring and checking on high, low and negative pressure systems.
- For bleeding cylinders and hydraulic systems.
- For taking samples on high, low and negative pressure systems.

Advantages:

- Leakfree connection before valve is open
- Sturdy, safe constructions for small dimensions
- Easy handling
- Simple connection of measuring, control and switching devices
- Coupling under pressure up to 400 bar is possible with screw couplings
- Nominal pressures up to 630 bar
- Self locking metal guard cap, vibration resistant

Sealing system of the primary seal:

EMA1 by ball non-return valve.

EMA3/EMA4 by cone seal with O-ring.

The new EMA3/EMA4 sealing system guarantees minimum leakage rates even for pneumatic and gas applications.

The screw-on Cap (EMA3/EMA4), and pin lock (EMA1) types both employ an O-ring seal as secondary sealing with the hose attached.

Differences between EMA1, EMA3 and EMA4 types

- sealing system (see previous section)
- Test hose connection by plug-in coupling in EMA1
Test hose connection by threaded connection in EMA3
- Working pressures (see section advantages)

Working pressure

- EMA3/EMA4 types up to 630 bar
- EMA1 types up to 400 bar
- Max. working pressure 630 bar for GMA, VKA and EMA ... the recommended working pressure of fitting manufacturer has to be applied
- Joining under pressure up to 400 bar max.
- The allowable nominal pressures of each Test-Point are shown on the product pages.

Materials and Temperatures:

- Steel, yellow chromated (A3C)
- Stainless Steel, material 1.4571
- Seals:
 - NBR Temperature range –20 to +100°C
(The sealing of the poppet valve for Standard-NBR-version is FKM)
 - FKM (Temperature range –20 to +200°C)
 - EPDM Ethylene Propylene (for Break Fluid)
(Temperature range –40 to +150°C)
- Hose:
 - Polyamide (Temperature range: –35°C ... 100°C max.)

Seals:

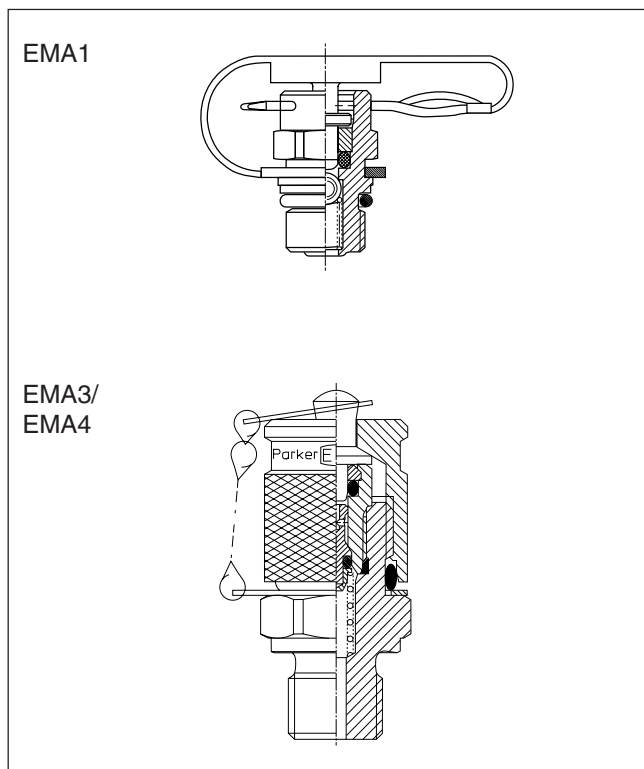
- Steel Types NBR (Perbunan)
- Stainless Steel FKM (Viton) only

Media:

- Suitable for hydraulic oils and other mineral oil based fluids (Please pay attention to the sealing materials used!)
- For use in conjunction with other liquid media please consult Parker

Approvals

DVGW for EMA3/8X1OR, EMA3/10X1OR, EMA3 1/8NPT, EMA 3 1/4 NPT



EMA1 Test point fitting with pin-lock

Series 1

Male stud thread: BSP, metric

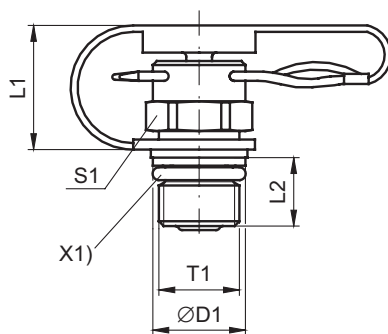


Fig. A

X1) O-ring
X2) Cutting face

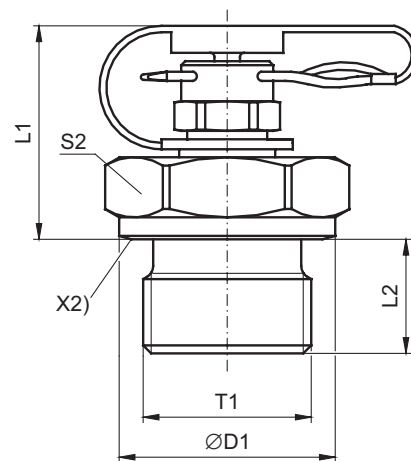


Fig. B

T1	D1	L1	L2	S1	S2	Fig.	Weight g/1 piece	Order code*	PN (bar) ¹⁾ A3C	DF**
M12×1.5	17.0	32.0	12.0		19	B	53	EMA1/12X1.5	400	4
M14×1.5	19.0	32.0	12.0		19	B	56	EMA1/14X1.5	400	4
M16×1.5	21.0	25.0	12.0		22	B	47	EMA1/16X1.5	400	4
G1/8	14.0	32.5	8.0		17	B	41	EMA1/1/8	400	4
G1/4	18.0	32.0	12.0		19	B	54	EMA1/1/4	400	4
G3/8	22.0	27.5	12.0		22	B	55	EMA1/3/8	400	4
G1/2	26.0	27.5	14.0		27	B	78	EMA1/1/2	400	4
M8×1	9.5	17.5	8.4	12		A	16	EMA1/8X1OR	400	4
M10×1	11.5	18.0	8.0	12		A	18	EMA1/10X1OR	400	4
M10×1	14.0	32.5	8.0		17	B	42	EMA1/10X1	400	4

**DF = Design Factor

¹⁾ Pressure shown = item deliverable

$\frac{PN \text{ (bar)}}{10} = PN \text{ (MPa)}$

*Please add the **suffixes**
below according to the material/
surface required.

Order code suffixes			
Material	Suffix surface and material	Example	Standard sealing material (no additional. suffix needed)
Steel, zinc plated	A3C	EMA1/12X1.5A3C	NBR