



Body Size

1/4" up to 1"

ISO B-Profile

Tema IB-Series

Medium Pressure



Technical Description

The Tema IB series plug profiles conform to ISO Standard 7241-1 series B and are compatible with other series complying with the same standard. To optimize performance and corrosion resistance the female is made from brass and the male hardened steel.

Advantages

Option with pressure eliminator function allows for effortless connection with static and residual pressure, up to operating pressure. It is available in the IB series for plugs and couplings. Option with heavy duty sleeve gives longer life time in very tough applications.

Working Temperature

-30°C up to +100°C (NBR)
-25°C up to +200°C (FKM)
depending on the medium. Special seals are available on request (see page 6).

Available Valves



Working Pressure

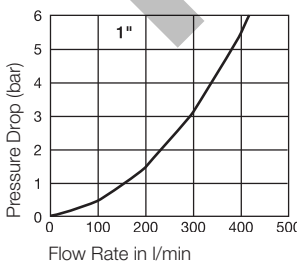
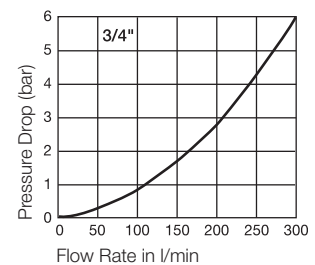
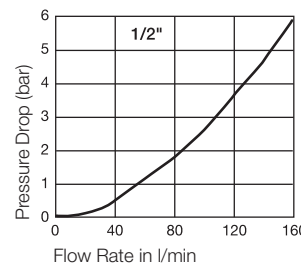
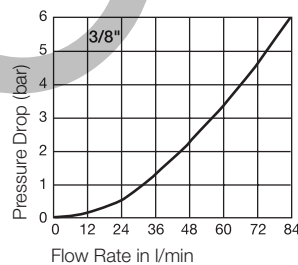
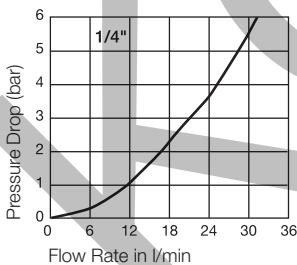
See charts.

Applications Area



| Material Coupling | Standard / Pressure Eliminator |
|---------------------------------|--|
| Coupling Body Size 1/4" to 1/2" | Brass, nickel and chrome plated |
| Coupling Body Size 3/4" to 1" | Steel zinc plated, passivated, sealed |
| Sleeve Size 1/4" | Brass, nickel and chrome plated |
| Sleeve Size 3/8" to 1" | Steel zinc plated, passivated, sealed |
| Valve | Brass |
| Springs | AISI 301 |
| Locking Balls | AISI 420 C |
| Seals | NBR/FKM |
| Valve Holder (up to 100°C) | Zinc casting |
| Valve Holder (over 100°C) | Brass |
| Material Plug | Standard / Pressure Eliminator |
| Plug Body | Steel hardened, zinc plated, passivated, sealed |
| Valve | Brass |
| Springs | AISI 301 |
| Seals | NBR/FKM |
| Valve Holder (up to 100°C) | Zinc Casting Size 3/8" & 1/2", Brass Size 1/4", 3/4", 1" |
| Valve Holder (over 100°C) | Brass |

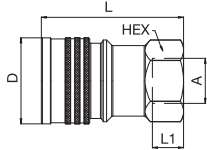
Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



Couplings

IB-Series

Ball Locking
ISO Standard
Medium Pressure

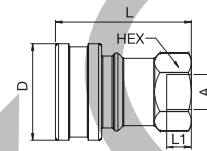


Female Thread

| Body Size | Connec-tion A | Hex mm | L mm | L1 mm | D mm | D1 mm | Valve | Working Pressure connected in bar | Version | Seal | Part Number |
|-----------|---------------|--------|------|-------|------|-------|---------|-----------------------------------|----------|------|-------------|
| 1/4" | G 1/4 | 24 | 57 | 12 | 28 | | with | 400 | Standard | NBR | IB2510 |
| 1/4" | G 1/4 | 24 | 57 | 12 | 28 | | with | 400 | Standard | FKM | IB2510 V |
| 1/4" | G 1/4 | 24 | 57 | 12 | 28 | | without | 400 | Standard | NBR | IB2510 UV |
| 1/4" | G 1/4 | 24 | 57 | 12 | 28 | | without | 400 | Standard | FKM | IB2510 VUV |
| 3/8" | G 3/8 | 30 | 63 | 12 | 34 | | with | 320 | Standard | NBR | IB3810 |
| 3/8" | G 3/8 | 30 | 63 | 12 | 34 | | with | 320 | Standard | FKM | IB3810 V |
| 3/8" | G 3/8 | 30 | 63 | 12 | 34 | | without | 320 | Standard | NBR | IB3810 UV |
| 3/8" | G 3/8 | 30 | 63 | 12 | 34 | | without | 320 | Standard | FKM | IB3810 VUV |
| 1/2" | G 1/2 | 33 | 66 | 14 | 39 | | with | 300 | Standard | NBR | IB5010 |
| 1/2" | G 1/2 | 33 | 66 | 14 | 39 | | with | 300 | Standard | FKM | IB5010 V |
| 1/2" | G 1/2 | 33 | 66 | 14 | 39 | | without | 300 | Standard | NBR | IB5010 UV |
| 1/2" | G 1/2 | 33 | 66 | 14 | 39 | | without | 300 | Standard | FKM | IB5010 VUV |
| 3/4" | G 3/4 | 46 | 81 | 16 | 52 | | with | 300 | Standard | NBR | IB7510 |
| 3/4" | G 3/4 | 46 | 81 | 16 | 52 | | with | 300 | Standard | FKM | IB7510 V |
| 3/4" | G 3/4 | 46 | 81 | 16 | 52 | | without | 300 | Standard | NBR | IB7510 UV |
| 3/4" | G 3/4 | 46 | 81 | 16 | 52 | | without | 300 | Standard | FKM | IB7510 VUV |
| 1" | G 1 | 50 | 94 | 18 | 62 | | with | 250 | Standard | NBR | IB10010 |
| 1" | G 1 | 50 | 94 | 18 | 62 | | with | 250 | Standard | FKM | IB10010 V |
| 1" | G 1 | 50 | 94 | 18 | 62 | | without | 250 | Standard | NBR | IB10010 UV |
| 1" | G 1 | 50 | 94 | 18 | 62 | | without | 250 | Standard | FKM | IB10010 VUV |

Couplings with Heavy Duty Sleeve

IB-Series

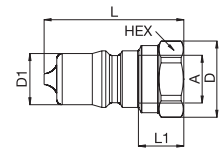


Female Thread

| Body Size | Connec-tion A | Hex mm | L mm | L1 mm | D mm | D1 mm | Valve | Working Pressure connected in bar | Version | Seal | Part Number |
|-----------|---------------|--------|------|-------|------|-------|---------|-----------------------------------|----------|------|--------------|
| 1/2" | G 1/2 | 33 | 66 | 14 | 47 | | with | 300 | Standard | NBR | IB5010 H |
| 1/2" | G 1/2 | 33 | 66 | 14 | 47 | | without | 300 | Standard | NBR | IB5010 HUV |
| 3/4" | G 3/4 | 46 | 81 | 16 | 56 | | with | 300 | Standard | NBR | IB7510 H |
| 3/4" | G 3/4 | 46 | 81 | 16 | 56 | | without | 300 | Standard | NBR | IB7510 HUV |
| 1" | G 1 | 50 | 94 | 18 | 66 | | with | 250 | Standard | NBR | IB10010 H |
| 1" | G 1 | 50 | 94 | 18 | 66 | | with | 250 | Standard | FKM | IB10010 HV |
| 1" | G 1 | 50 | 94 | 18 | 66 | | without | 250 | Standard | NBR | IB10010 HUV |
| 1" | G 1 | 50 | 94 | 18 | 66 | | without | 250 | Standard | FKM | IB10010 HVUV |

Plugs

IB-Series

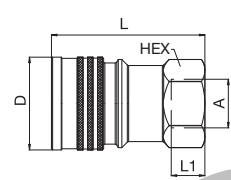


Female Thread

| Body Size | Connection A | Hex mm | L mm | L1 mm | D mm | D1 mm | Valve | Working Pressure connected in bar | Version | Seal | Part Number |
|-----------|--------------|--------|------|-------|------|-------|---------|-----------------------------------|----------|------|-------------|
| 1/4" | G 1/4 | 19 | 38 | 12 | 21 | 14,1 | with | 400 | Standard | NBR | IB2520 |
| 1/4" | G 1/4 | 19 | 38 | 12 | 21 | 14,1 | with | 400 | Standard | FKM | IB2520 V |
| 1/4" | G 1/4 | 19 | 38 | 12 | 21 | 14,1 | without | 400 | Standard | - | IB2520 UV |
| 3/8" | G 3/8 | 22 | 42 | 12 | 24 | 19 | with | 320 | Standard | NBR | IB3820 |
| 3/8" | G 3/8 | 22 | 42 | 12 | 24 | 19 | with | 320 | Standard | FKM | IB3820 V |
| 3/8" | G 3/8 | 22 | 38 | 12 | 24 | 19 | without | 320 | Standard | - | IB3820 UV |
| 1/2" | G 1/2 | 28 | 48 | 14 | 31 | 23,6 | with | 300 | Standard | NBR | IB5020 |
| 1/2" | G 1/2 | 28 | 48 | 14 | 31 | 23,6 | with | 300 | Standard | FKM | IB5020 V |
| 1/2" | G 1/2 | 28 | 42 | 14 | 31 | 23,6 | without | 300 | Standard | - | IB5020 UV |
| 3/4" | G 3/4 | 36 | 59 | 24 | 39 | 31,4 | with | 300 | Standard | NBR | IB7520 |
| 3/4" | G 3/4 | 36 | 59 | 24 | 39 | 31,4 | with | 300 | Standard | FKM | IB7520 V |
| 3/4" | G 3/4 | 36 | 53 | 24 | 39 | 31,4 | without | 300 | Standard | - | IB7520 UV |
| 1" | G 1 | 42 | 70 | 18 | 46 | 37,8 | with | 300 | Standard | NBR | IB10020 |
| 1" | G 1 | 42 | 70 | 18 | 46 | 37,8 | with | 300 | Standard | FKM | IB10020 V |
| 1" | G 1 | 42 | 70 | 18 | 46 | 37,8 | without | 300 | Standard | - | IB10020 UV |

Couplings

IB-Series



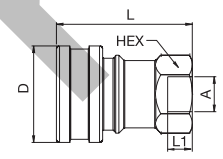
Female Thread



| Body Size | Connection A | Hex mm | L mm | L1 mm | D mm | D1 mm | Valve | Working Pressure connected in bar | Version | Seal | Part Number |
|-----------|--------------|--------|------|-------|------|-------|-------|-----------------------------------|--------------|------|-------------|
| 1/4" | G 1/4 | 24 | 57 | 12 | 28 | | with | 400 | Press. Elim. | NBR | IB2511 |
| 1/4" | G 1/4 | 24 | 57 | 12 | 28 | | with | 400 | Press. Elim. | FKM | IB2511 V |
| 3/8" | G 3/8 | 30 | 63 | 12 | 34 | | with | 320 | Press. Elim. | NBR | IB3811 |
| 3/8" | G 3/8 | 30 | 63 | 12 | 34 | | with | 320 | Press. Elim. | FKM | IB3811 V |
| 1/2" | G 1/2 | 33 | 66 | 14 | 39 | | with | 300 | Press. Elim. | NBR | IB5011 |
| 1/2" | G 1/2 | 33 | 66 | 14 | 39 | | with | 300 | Press. Elim. | FKM | IB5011 V |
| 3/4" | G 3/4 | 46 | 81 | 16 | 52 | | with | 300 | Press. Elim. | NBR | IB7511 |
| 3/4" | G 3/4 | 46 | 81 | 16 | 52 | | with | 300 | Press. Elim. | FKM | IB7511 V |
| 1" | G 1 | 50 | 94 | 18 | 62 | | with | 300 | Press. Elim. | NBR | IB10011 |

Couplings with Heavy Duty Sleeve

IB-Series



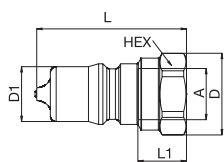
Female Thread



| Body Size | Connection A | Hex mm | L mm | L1 mm | D mm | D1 mm | Valve | Working Pressure connected in bar | Version | Seal | Part Number |
|-----------|--------------|--------|------|-------|------|-------|-------|-----------------------------------|--------------|------|-------------|
| 1/2" | G 1/2 | 33 | 66 | 14 | 47 | | with | 300 | Press. Elim. | NBR | IB5011 H |
| 3/4" | G 3/4 | 46 | 81 | 16 | 56 | | with | 300 | Press. Elim. | NBR | IB7511 H |
| 1" | G 1 | 50 | 94 | 18 | 66 | | with | 300 | Press. Elim. | NBR | IB10011 H |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Plugs

IB-Series



Female Thread



| Body Size | Connection A | Hex mm | L mm | L1 mm | D mm | D1 mm | Valve | Working Pressure connected in bar | Version | Seal | Part Number |
|-----------|--------------|--------|------|-------|------|-------|-------|-----------------------------------|--------------|------|-------------|
| 1/4" | G 1/4 | 19 | 38 | 12 | 21 | 14,1 | with | 400 | Press. Elim. | NBR | IB2521 |
| 1/4" | G 1/4 | 19 | 38 | 12 | 21 | 14,1 | with | 400 | Press. Elim. | FKM | IB2521 V |
| 3/8" | G 3/8 | 22 | 42 | 12 | 24 | 19 | with | 320 | Press. Elim. | NBR | IB3821 |
| 3/8" | G 3/8 | 22 | 42 | 12 | 24 | 19 | with | 320 | Press. Elim. | FKM | IB3821 V |
| 1/2" | G 1/2 | 28 | 48 | 14 | 31 | 23,6 | with | 300 | Press. Elim. | NBR | IB5021 |
| 1/2" | G 1/2 | 28 | 48 | 14 | 31 | 23,6 | with | 300 | Press. Elim. | FKM | IB5021 V |
| 3/4" | G 3/4 | 36 | 59 | 24 | 39 | 31,4 | with | 300 | Press. Elim. | NBR | IB7521 |
| 3/4" | G 3/4 | 36 | 59 | 24 | 39 | 31,4 | with | 300 | Press. Elim. | FKM | IB7521 V |
| 1" | G 1 | 42 | 70 | 18 | 46 | 37,8 | with | 300 | Press. Elim. | NBR | IB10021 |

Seal-Kit

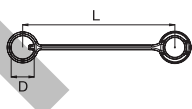
IB-Series

| Body Size | Version | Material | Part Number |
|-----------|--------------|----------|-------------|
| 1/4" | for coupling | NBR | IB2500-PSN |
| 1/4" | for coupling | FKM | IB2500-PSV |
| 3/8" | for coupling | NBR | IB3800-PSN |
| 3/8" | for coupling | FKM | IB3800-PSV |
| 1/2" | for coupling | NBR | IB5000-PSN |
| 1/2" | for coupling | FKM | IB5000-PSV |
| 3/4" | for coupling | NBR | IB7500-PSN |
| 3/4" | for coupling | FKM | IB7500-PSV |
| 1" | for coupling | NBR | IB10000-PSN |
| 1" | for coupling | FKM | IB10000-PSV |

Further sealing materials on request.

Dust Protection

IB-Series



| Body Size | Version | L mm | D mm | Material | Color | Part Number |
|-----------|--------------|------|------|----------|--------|-------------|
| 1/4" | for coupling | 145 | 19 | PVC | Blue | IB2516 |
| 1/4" | for coupling | 145 | 19 | PVC | Yellow | IB2516 Y |
| 3/8" | for coupling | 145 | 19 | PVC | Blue | IB3816 |
| 1/2" | for coupling | 170 | 28 | PVC | Blue | IB5016 |
| 3/4" | for coupling | 195 | 33 | PVC | Blue | IB7516 |
| 1" | for coupling | 230 | 42 | PVC | Blue | IB10016 |
| 1/4" | for plug | 145 | 19 | PVC | Blue | IB2526 |
| 1/4" | for plug | 145 | 19 | PVC | Yellow | IB2526 Y |
| 3/8" | for plug | 145 | 19 | PVC | Blue | IB3826 |
| 1/2" | for plug | 170 | 28 | PVC | Blue | IB5026 |
| 3/4" | for plug | 195 | 33 | PVC | Blue | IB7526 |
| 1" | for plug | 230 | 42 | PVC | Blue | IB10026 |

Further colors on request.