Ball Locking
ISO Standard

ISO B
ISO 7241-1
Series B

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 IS0 Standard 7241-1 series B and are compatible with other series complying with the same standard. To optimize performance and corrosion resisitance the female is made from brass and the male hardend 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 Pressure
See charts.

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).

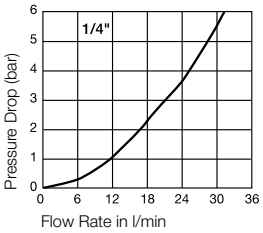
Available Valves

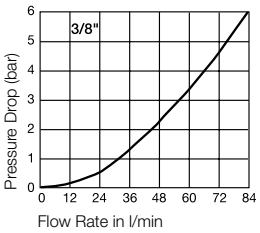
Applications Area

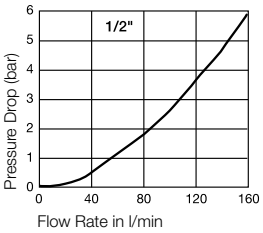
Material Coupling	Standard / Pressure Eliminator
Coupling Body Size 1/4" to 1/2"	Brass, nickel and chrome plated
Coupling Body Size 3/4" to 1"	Steel zinc plated, passivated, sealed
Sleeve Size 1/4"	Brass, nickel and chrome plated
Sleeve Size 3/8" to 1"	Steel zinc plated, passivated, sealed
Valve	Brass
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

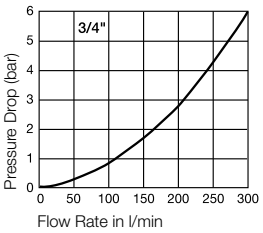
Material Plug	Standard / Pressure Eliminator
Plug Body	Steel hardened, zinc plated, passivated, sealed
Valve	Brass
Springs	AISI 301
Seals	NBR/FKM
Valve Holder (up to 100°C)	Zinc Casting Size 3/8" & 1/2", Brass Size 1/4", 3/4", 1"
Valve Holder (over 100°C)	Brass

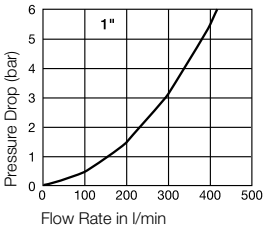
Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



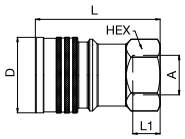








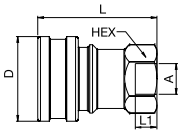
Couplings — IB-Series



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	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

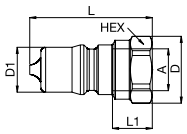


Female Thread

Body Size	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	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

⚠ Please consider our security advices on the pages 12/13 ⚠

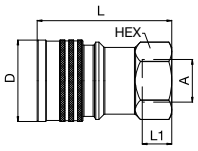
Plugs — IB-Series



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
1/4"	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

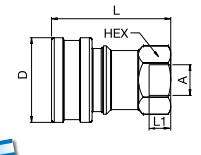
Couplings — IB-Series



PE 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	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

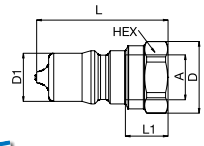


PE Female Thread

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	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

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Plugs — IB-Series



PE 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.						

⚠ Please consider our security advices on the pages 12/13 ⚠