



Body Size

1/8" up to 2"

Tema Profile

T-Series

Medium Pressure



Technical Description

The TEMA Standard Series is characterised by a low pressure drop and maximum flow capacity. The coupling system is available as double shut-off or straight through version. The 2500 can be used also as a single shut-off version.

Super Nipple

Increased hardening for better wear resistance

Advantages

- High operating pressure.
- Compact dimension.
- Due to the Pressure Eliminator version for coupling and plug the connection is possible up to the operating pressure.
- Double safety through a double O-ring seal.
- A safety locking sleeve prevents unintentional disconnection (except series 2300).

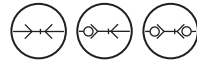
Working Pressure

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



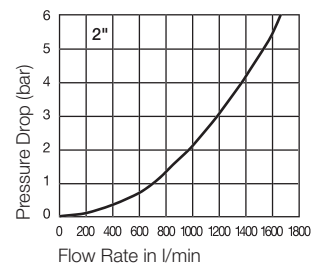
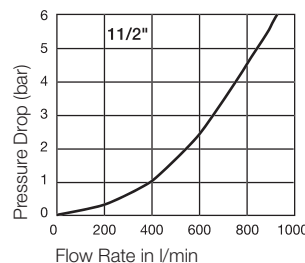
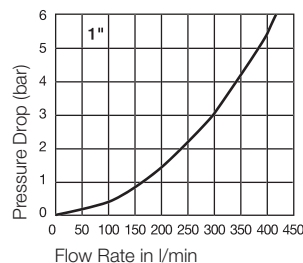
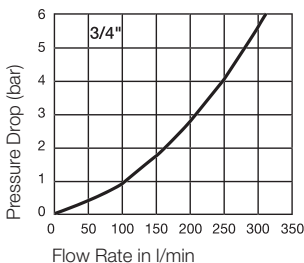
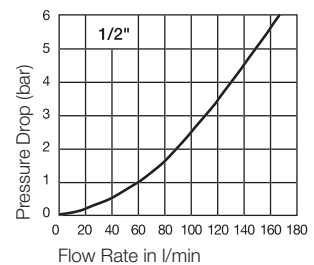
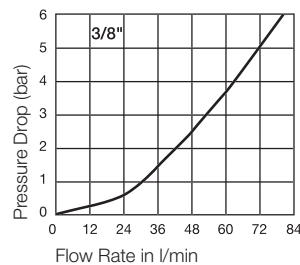
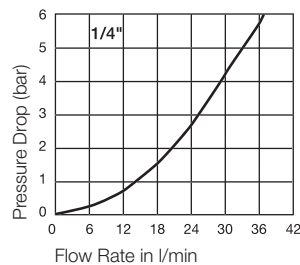
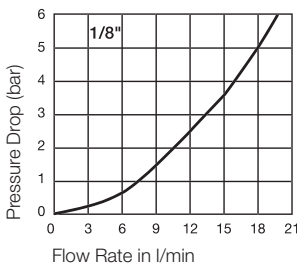
Applications Area



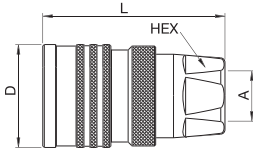
Material Coupling	Standard / Pressure Eliminator	Stainl. Steel / Press. Eli.	High Press. Water (3/8")
Coupling Body	Brass, nickel plated chromated Steel for the 15000 and 20000 sizes	AISI 316	Brass, chromated
Sleeve	Steel hardened, zinc plated, passiv., sealed	AISI 316	Brass, chromated
Locking Ring	Brass, zinc-iron coated, black passiv., sealed	AISI 316	
Valve	Brass	AISI 316	
Springs	AISI 301	AISI 301	AISI 301
Locking Balls	AISI 420 C	AISI 420 C	AISI 420 C
Seals	NBR/FKM	FKM	NBR
Valve Holder (up to 100°C)	Zinc casting N/A in size 2300	AISI 316	
Valve Holder (over 100°C)	Brass	AISI 316	

Plug	Standard / Pressure Eliminator	Stainl. Steel / Press. Eli.	High Press. Water (3/8")
Plug Body	Steel hardened, zinc plated, passiv., sealed	AISI 316	AISI 420 hardened
Valve	Brass	AISI 316	
Springs	AISI 301	AISI 301	
Seals	NBR/FKM	FKM	
Valve Holder (up to 100°C)	Zinc Casting N/A for sizes 2300 and 2500	AISI 316	
Valve Holder (over 100°C)	Brass N/A for sizes 2300 and 2500	AISI 316	

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



Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
1/8"	G 1/8	15	38	18	with	200	Standard	NBR	2310-QC
1/8"	G 1/8	15	38	18	with	200	Standard	FKM	2310 V
1/8"	G 1/8	15	38	18	without	200	Standard	NBR	2310 UV
1/8"	G 1/8	15	38	18	without	200	Standard	FKM	2310 VUV
1/4"	G 1/4	21	64	25	with	450	Standard	NBR	2510-QC
1/4"	G 1/4	21	64	25	with	450	Standard	FKM	2510 V
1/4"	G 1/4	21	64	25	without	450	Standard	NBR	2510 UV
1/4"	G 1/4	21	64	25	without	450	Standard	FKM	2510 VUV
3/8"	G 3/8	24	60	34	with	350	Standard	NBR	3810
3/8"	G 3/8	24	60	34	with	350	Standard	FKM	3810 V
3/8"	G 3/8	24	60	34	without	350	Standard	NBR	3810 UV
3/8"	G 3/8	24	60	34	without	350	Standard	FKM	3810 VUV
3/8"	G 3/8	24	40	34	without	350	High Press. Water	NBR	3810 H
3/8"	G 3/8	24	40	34	without	350	High Press. Water	FKM	3810 HV
3/8"	G 3/8	24	40	34	without	350	High Press. Water	EPDM	3810 HEP
3/8"	G 3/8	29	40	34	without	350	High Press. Water	NBR	3810 H2
3/8"	G 3/8	29	40	34	without	350	High Press. Water	FKM	3810 H2V
3/8"	G 3/8	29	40	34	without	350	High Press. Water	EPDM	3810 H2EP
1/2"	G 1/2	30	65	40	with	300	Standard	NBR	5010
1/2"	G 1/2	30	65	40	with	300	Standard	FKM	5010 V
1/2"	G 1/2	30	65	40	without	300	Standard	NBR	5010 UV
1/2"	G 1/2	30	65	40	without	300	Standard	FKM	5010 VUV
3/4"	G 3/4	38	73	52	with	280	Standard	NBR	7510
3/4"	G 3/4	38	73	52	with	280	Standard	FKM	7510 V
3/4"	G 3/4	38	73	52	without	280	Standard	NBR	7510 UV
3/4"	G 3/4	38	73	52	without	280	Standard	FKM	7510 VUV
1"	G 1	45	88	62	with	250	Standard	NBR	10010
1"	G 1	45	88	62	with	250	Standard	FKM	10010 V
1"	G 1	45	88	62	without	250	Standard	NBR	10010 UV
1"	G 1	45	88	62	without	250	Standard	FKM	10010 VUV
1 1/2"	G 1 1/2	60	112	73	with	200	Standard	NBR	15010-QC
1 1/2"	G 1 1/2	60	112	73	with	200	Standard	FKM	15010 V
1 1/2"	G 1 1/2	60	112	73	with	50	Brass	NBR	15010 M
1 1/2"	G 1 1/2	60	112	73	with	50	Brass	FKM	15010 MV
1 1/2"	G 1 1/2	60	112	73	without	200	Standard	NBR	15010 UV
1 1/2"	G 1 1/2	60	112	73	without	200	Standard	FKM	15010 VUV
1 1/2"	G 1 1/2	60	112	73	without	50	Brass	NBR	15010 MUV
1 1/2"	G 1 1/2	60	112	73	without	50	Brass	FKM	15010 MVUV
2"	G 2	75	144	90	with	180	Standard	NBR	20010-QC
2"	G 2	75	144	90	with	180	Standard	FKM	20010 V
2"	G 2	75	144	90	without	180	Standard	NBR	20010 UV
2"	G 2	75	144	90	without	180	Standard	FKM	20010 VUV

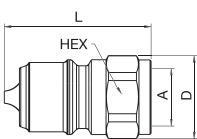


Female Thread

Plugs

T-Series

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
1/8"	G 1/8	15	36	17	with	200	Standard	NBR	2320
1/8"	G 1/8	15	38	17	with	200	Standard	FKM	2320 V
1/8"	G 1/8	15	36	17	without	200	Standard		2320 UV
1/4"	G 1/4	19	45	21	with	450	Standard	NBR	2520
1/4"	G 1/4	19	45	21	with	450	Standard	FKM	2520 V
1/4"	G 1/4	19	45	21	without	450	Standard		2520 UV
3/8"	G 3/8	22	42	24	with	350	Standard	NBR	3820
3/8"	G 3/8	22	42	24	with	350	Standard	FKM	3820 V
3/8"	G 3/8	22	38	24	without	350	Standard		3820 UV
1/2"	G 1/2	27	46	30	with	320	Standard	NBR	5020
1/2"	G 1/2	27	46	30	with	320	Standard	FKM	5020 V
1/2"	G 1/2	27	42	30	without	320	Standard		5020 UV
3/4"	G 3/4	36	52	39	with	300	Standard	NBR	7520-QC
3/4"	G 3/4	36	52	39	with	300	Standard	FKM	7520 V
3/4"	G 3/4	36	47	39	without	300	Standard		7520 UV
1"	G 1	46	60	49	with	280	Standard	NBR	10020
1"	G 1	46	60	49	with	280	Standard	FKM	10020 V
1"	G 1	46	53	49	without	280	Standard		10020 UV
1 1/2"	G 1 1/2	60	107	67	with	200	Standard	NBR	15020
1 1/2"	G 1 1/2	60	107	67	with	200	Standard	FKM	15020 V
1 1/2"	G 1 1/2	60	107	67	with	50	Brass	NBR	15020 M
1 1/2"	G 1 1/2	60	107	67	with	50	Brass	FKM	15020 MV
1 1/2"	G 1 1/2	60	107	67	without	200	Standard		15020 UV
1 1/2"	G 1 1/2	60	107	67	without	50	Brass		15020 MUV
2"	G 2	75	142	85	with	180	Standard	NBR	20020-QC
2"	G 2	75	142	85	with	180	Standard	FKM	20020 V
2"	G 2	75	142	85	without	180	Standard	NBR	20020 UV

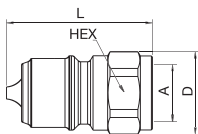


Female Thread

Super Nipple

T-Series

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
3/4"	G 3/4	36	52	39	with	300	Standard	NBR	7520 S

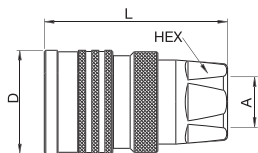


Female Thread

Couplings

T-Series

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
3/8"	G 3/8	24	60	34	with	350	Press. Eliminator	NBR	3811
3/8"	G 3/8	24	60	34	with	350	Press. Eliminator	FKM	3811 V
1/2"	G 1/2	30	65	40	with	300	Press. Eliminator	NBR	5011
1/2"	G 1/2	30	65	40	with	300	Press. Eliminator	FKM	5011 V
3/4"	G 3/4	38	72	52	with	280	Press. Eliminator	NBR	7511
3/4"	G 3/4	38	72	52	with	280	Press. Eliminator	FKM	7511 V
1"	G 1	45	88	62	with	250	Press. Eliminator	NBR	10011-QC
1"	G 1	45	88	62	with	250	Press. Eliminator	FKM	10011 V
1 1/2"	G 1 1/2	60	112	73	with	200	Press. Eliminator	NBR	15011-QC
1 1/2"	G 1 1/2	60	112	73	with	200	Press. Eliminator	FKM	15011 V

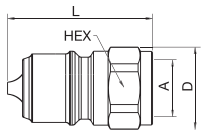


Female Thread

Plugs

T-Series

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
3/8"	G 3/8	22	43	24	with	350	Press. Eliminator	NBR	3821
3/8"	G 3/8	22	43	24	with	350	Press. Eliminator	FKM	3821 V
1/2"	G 1/2	27	47	30	with	320	Press. Eliminator	NBR	5021-QC
1/2"	G 1/2	27	47	30	with	320	Press. Eliminator	FKM	5021 V
3/4"	G 3/4	36	53	39	with	300	Press. Eliminator	NBR	7521-QC
3/4"	G 3/4	36	53	39	with	300	Press. Eliminator	FKM	7521 V
1"	G 1	46	61	49	with	280	Press. Eliminator	NBR	10021
1"	G 1	46	61	49	with	280	Press. Eliminator	FKM	10021 V
1 1/2"	G 1 1/2	60	107	67	with	200	Press. Eliminator	NBR	15021
1 1/2"	G 1 1/2	60	107	67	with	200	Press. Eliminator	FKM	15021 V

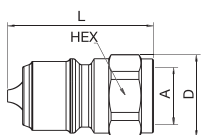


Female Thread

Super Nipple

T-Series

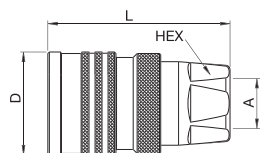
Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
3/4"	G 3/4	36	53	39	with	300	Press. Eliminator	NBR	7521 S



Female Thread

Couplings

T-Series Stainless Steel

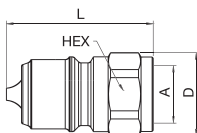


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar ⁴	Version	Seal	Part Number
1/8"	G 1/8	15	38	18	with	200	Stainless Steel	FKM	2310 RV
1/8"	G 1/8	15	38	18	with	200	Stainless Steel	FKM	2310 RFV ¹
1/8"	G 1/8	15	38	18	without	200	Stainless Steel	FKM	2310 RVUV
1/4"	G 1/4	21	64	25	with	250	Stainless Steel	FKM	2510 RV
1/4"	G 1/4	21	64	25	without	250	Stainless Steel	FKM	2510 RVUV
3/8"	G 3/8	24	60	34	with	300	Stainless Steel	FKM	3810 RV
3/8"	G 3/8	24	60	34	without	350	Stainless Steel	FKM	3810 RVUV
1/2"	G 1/2	30	65	40	with	300	Stainless Steel	FKM	5010 RV
1/2"	G 1/2	30	65	40	without	300	Stainless Steel	FKM	5010 RVUV
3/4"	G 3/4	38	73	52	with	250	Stainless Steel	FKM	7510 RV
3/4"	G 3/4	38	73	52	without	250	Stainless Steel	FKM	7510 RVUV
1"	G 1	45	88	62	with	250	Stainless Steel	FKM	10010 RV
1"	G 1	45	88	62	without	250	Stainless Steel	FKM	10010 RVUV
1 1/2"	G 1 1/2	60	112	73	with	150	Stainless Steel	FKM	15010 RV
1 1/2"	G 1 1/2	60	112	73	without	150	Stainless Steel	FKM	15010 RVUV
2"	G 2	75	144	90	with	120	Stainless Steel	FKM	20010 RV
2"	G 2	75	144	90	without	120	Stainless Steel	FKM	20010 RVUV

Plugs

T-Series Stainless Steel

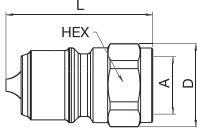


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar ⁴	Version	Seal	Part Number
1/8"	G 1/8	15	36	17	with	200	Stainless Steel	FKM	2320 RV
1/8"	G 1/8	15	38	17	with	200	Stainless Steel	FKM	2320 RFV ¹
1/8"	G 1/8	15	36	17	without	200	Stainless Steel		2320 RUV
1/4"	G 1/4	19	45	21	with	250	Stainless Steel	FKM	2520 RV
1/4"	G 1/4	19	45	21	with	250	Stainless Steel	FKM	2520 RFV ¹
1/4"	G 1/4	19	45	21	with	170	High Press. Water	FKM	2520 RFV2 ^{1 3}
1/4"	G 1/4	19	45	21	without	250	Stainless Steel		2520 RUV
1/4"	G 1/4	19	45	21	without	450	Stainless Steel		2520 RHUV ²
1/4"	G 1/4	19	45	21	without	170	Stainless Steel		2520 RFUV2 ²
3/8"	G 3/8	22	42	24	with	300	Stainless Steel	FKM	3820 RV
3/8"	G 3/8	22	42	24	with	300	Stainless Steel	NBR	3820 RF ¹
3/8"	G 3/8	22	42	24	with	300	Stainless Steel	FKM	3820 RFV ¹
3/8"	G 3/8	22	38	24	without	300	Stainless Steel		3820 RUV
3/8"	G 3/8	22	38	24	without	170	Stainless Steel		3820 RFUV ²
1/2"	G 1/2	27	46	30	with	300	Stainless Steel	FKM	5020 RV
1/2"	G 1/2	27	42	30	without	300	Stainless Steel		5020 RUV
3/4"	G 3/4	36	52	39	with	250	Stainless Steel	FKM	7520 RV
3/4"	G 3/4	36	47	39	without	250	Stainless Steel		7520 RUV
1"	G 1	46	60	49	with	250	Stainless Steel	FKM	10020 RV
1"	G 1	46	53	49	without	250	Stainless Steel		10020 RUV

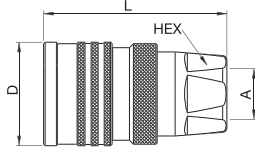
Plugs

T-Series Stainless Steel

	Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar ⁴	Version	Seal	Part Number
 <p>Female Thread</p>	1 1/2"	G 1 1/2	60	107	67	with	150	Stainless Steel	FKM	15020 RV
	1 1/2"	G 1 1/2	60	107	67	without	150	Stainless Steel		15020 RUV
	2"	G 2	75	142	85	with	120	Stainless Steel	FKM	20020 RV
	2"	G 2	75	142	85	without	120	Stainless Steel		20020 RUV

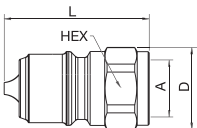
Couplings

T-Series Stainless Steel

	Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar ⁴	Version	Seal	Part Number
 <p>Female Thread</p>	3/8"	G 3/8	24	60	34	with	300	Press. Eliminator	FKM	3811 RV
	3/8"	G 3/8	24	60	34	with	300	Press. Eliminator	FKM	3811 RFV ¹
	1/2"	G 1/2	30	65	40	with	300	Press. Eliminator	FKM	5011 RV
	1/2"	G 1/2	30	65	40	with	300	Press. Eliminator	FKM	5011 RFV ¹
	3/4"	G 3/4	38	72	52	with	250	Press. Eliminator	FKM	7511 RV
	3/4"	G 3/4	38	72	52	with	250	Press. Eliminator	FKM	7511 RFV ¹
	1"	G 1	45	88	62	with	250	Press. Eliminator	FKM	10011 RV
	1"	G 1	45	88	62	with	250	Press. Eliminator	FKM	10011 RFV

Plugs

T-Series Stainless Steel

	Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar ⁴	Version	Seal	Part Number
 <p>Female Thread</p>	3/8"	G 3/8	22	43	24	with	350	Press. Eliminator	FKM	3821 RV
	3/8"	G 3/8	22	43	24	with	350	Press. Eliminator	FKM	3821 RFV ¹
	1/2"	G 1/2	27	47	30	with	300	Press. Eliminator	FKM	5021 RV
	1/2"	G 1/2	27	47	30	with	300	Press. Eliminator	FKM	5021 RFV ¹
	3/4"	G 3/4	36	53	39	with	250	Press. Eliminator	FKM	7521 RV
	3/4"	G 3/4	36	53	39	with	250	Press. Eliminator	FKM	7521 RFV ¹
	1"	G 1	46	61	49	with	250	Press. Eliminator	NBR	10021 RV
1"	G 1	46	61	49	with	250	Press. Eliminator	FKM	10021 RFV ¹	

¹ Valve made of brass

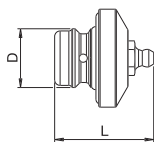
² Material: AISI 420 hardened

³ Suitable for high pressure water, AISI 303

⁴ For pulsating pressure, the pressure must not exceed 50% of the given value

Lubrication Nipples

T-Series



Body Size	Version	L mm	D mm	Part Number
3/8"	for coupling	36	22	GR3-QC
1/2"	for coupling	41	25	GR5
3/4"	for coupling	44	33	GR7
1"	for coupling	46	41	GR10-QC

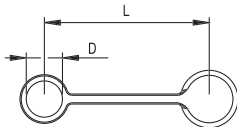
For problem free operating with longer lifetime – especially in cold climates.

Seal-Kit

T-Series

Body Size	Version	Material	Part Number
1/8"	for coupling	NBR	11310 N
1/8"	for coupling	FKM	11310 V
1/4"	for coupling	NBR	2500-PSN
1/4"	for coupling	FKM	2500-PSV
3/8"	for coupling	NBR	3800-PSN
3/8"	for coupling	FKM	3800-PSV
1/2"	for coupling	NBR	5000-PSN
1/2"	for coupling	FKM	5000-PSV
3/4"	for coupling	NBR	7500-PSN
3/4"	for coupling	FKM	7500-PSV
1"	for coupling	NBR	10000-PSN
1"	for coupling	FKM	10000-PSV
1 1/2"	for coupling	NBR	15000-PSN
1 1/2"	for coupling	FKM	15000-PSV
2"	for coupling	NBR	20000-PSN
2"	for coupling	FKM	20000-PSV

The valve seal is crimped and can not be changed.



Body Size	Version	L mm	D mm	Material	Color	Part Number
1/8"	for coupling	66	15	PVC	Red	2315-QC
1/8"	for plug	55	13,4	PVC	Red	125-QC
1/4"	for coupling	145	19	PVC	Blue	2516-QC
1/4"	for plug	145	19	PVC	Blue	2526-QC
3/8"	for coupling	145	23	PVC	Blue	3816-QC
3/8"	for plug	145	23	PVC	Blue	3826
3/8"	for coupling	145	23	PVC	Yellow	3816 Y
3/8"	for plug	145	23	PVC	Yellow	3826 Y
1/2"	for coupling	170	28	PVC	Blue	5016-QC
1/2"	for plug	170	28	PVC	Blue	5026-QC
3/4"	for coupling	195	33	PVC	Blue	7516-QC
3/4"	for plug	195	33	PVC	Blue	7526
1"	for coupling	230	42	PVC	Blue	10016
1"	for plug	230	42	PVC	Blue	10026
1 1/2"	for coupling	330	56	PVC	Black	15015
1 1/2"	for plug	330	56	PVC	Black	15025
2"	for coupling	335	63	EBA	Black	20015-QC
2"	for plug	335	63	EBA	Black	20025-QC

When coupling and plug is connected it is recommended to connect dust protections – to keep these clean, too. Further colors on request.



Body Size

1/2" up to 1"

Tema Profile

TH-Series



Applications Area



Body Size	Bursting Pressure connected
1/2"	> 1200 bar
3/4"	> 1200 bar
1"	> 1200 bar

Technical Description

The TH series is a further development of the standard hydraulic coupling, with some new materials to stand up to heavy conditions. The body of the coupling is made of steel so that the coupling functions reliably even when subject to substantial lateral forces and high impulses.

Super Nipple

Increased hardening for better wear resistance

Advantages

- High flow rate – minimum pressure drop.
- Twice as safe through double sealing.
- Safety closing ring prevents unintentional uncoupling.
- Maximum protection against corrosion.
- Small dimensions.
- Pressure eliminator for coupling and plug available. Possible to connect up to working pressure.

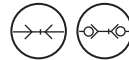
Working Pressure

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).

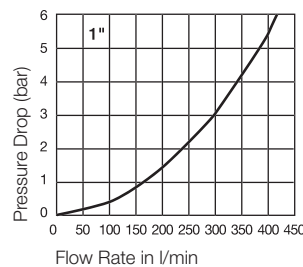
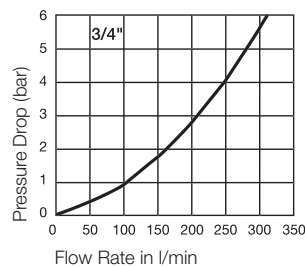
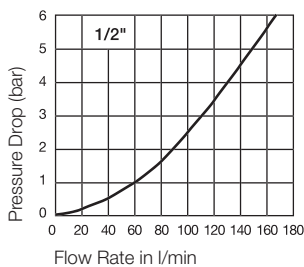
Available Valves



Material Coupling	Standard / Pressure Eliminator
Coupling Body	Steel, zinc plated, passivated, sealed
Sleeve	Steel hardened, zinc plated, passivated, sealed
Locking Ring	Brass, zinc-iron coated, black passivated, sealed
Valve	Brass
Springs	AISI 302
Locking Balls	AISI 420 C
Seals	NBR/FKM
Valve Holder	Brass, hard-drawn

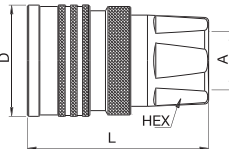
Plug	Standard / Pressure Eliminator
Plug Body	Steel hardened, zinc plated, passivated, sealed
Valve	Brass
Springs	AISI 301
Seals	NBR/FKM
Valve Holder	Brass, hard-drawn

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



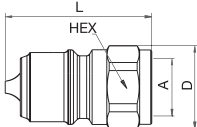
Couplings

TH-Series

	Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
 <p>Female Thread</p>	1/2"	G 1/2	30	65	40	with	320	Standard	NBR	H5010
	1/2"	G 1/2	30	65	40	with	320	Standard	FKM	H5010 V
	3/4"	G 3/4	38	73	52	with	300	Standard	NBR	H7510
	3/4"	G 3/4	38	73	52	with	300	Standard	FKM	H7510 V
	1"	G 1	45	88	62	with	280	Standard	NBR	H10010
	1"	G 1	45	88	62	with	280	Standard	FKM	H10010 V

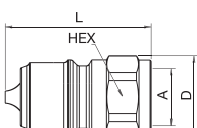
Plugs

TH-Series

	Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
 <p>Female Thread</p>	1/2"	G 1/2	27	46	30	with	320	Standard	NBR	5020
	1/2"	G 1/2	27	46	30	with	320	Standard	FKM	5020 V
	3/4"	G 3/4	36	52	39	with	300	Standard	NBR	7520-QC
	3/4"	G 3/4	36	52	39	with	300	Standard	FKM	7520 V
	1"	G 1	46	60	49	with	280	Standard	NBR	10020
	1"	G 1	46	60	49	with	280	Standard	FKM	10020 V

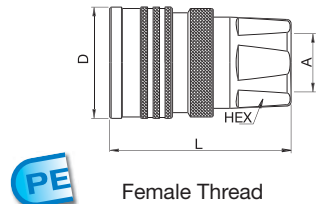
Super Nipple

TH-Series

	Body Size	Conne- tion A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
 <p>Female Thread</p>	3/4"	G 3/4	36	52	39	with	300	Standard	NBR	7520 S

Couplings

TH-Series

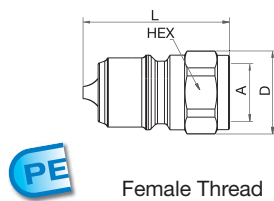


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
1/2"	G 1/2	30	65	40	with	320	Press. Eliminator	NBR	H5011
1/2"	G 1/2	30	65	40	with	320	Press. Eliminator	FKM	H5011 V
3/4"	G 3/4	38	72	52	with	300	Press. Eliminator	NBR	H7511
3/4"	G 3/4	38	72	52	with	300	Press. Eliminator	FKM	H7511 V
1"	G 1	45	88	62	with	280	Press. Eliminator	NBR	H10011
1"	G 1	45	88	62	with	280	Press. Eliminator	FKM	H10011 V

Plugs

TH-Series

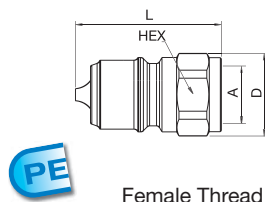


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
1/2"	G 1/2	27	47	30	with	320	Press. Eliminator	NBR	5021-QC
1/2"	G 1/2	27	47	30	with	320	Press. Eliminator	FKM	5021 V
3/4"	G 3/4	36	53	39	with	300	Press. Eliminator	NBR	7521-QC
3/4"	G 3/4	36	53	39	with	300	Press. Eliminator	FKM	7521 V
1"	G 1	46	61	49	with	280	Press. Eliminator	NBR	10021
1"	G 1	46	61	49	with	280	Press. Eliminator	FKM	10021 V

Super Nipple

TH-Series



Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	Valve	Working Press. connect. in bar	Version	Seal	Part Number
3/4"	G 3/4	36	53	39	with	300	Press. Eliminator	NBR	7521 S



Body Size

1/4" up to 1"

Tema Profile

FF-Series

Medium Pressure



Connected length in total

FF2510 + FF2520 = 122 mm

FF2510 + FF2521 = 147 mm

FF3810 + FF3820 = 125 mm

FF3810 + FF3821 = 154 mm

FF5010 + FF5020 = 145 mm

FF5010 + FF5021 = 177 mm

FF7510 + FF7520 = 169 mm

FF7510 + FF7521 = 215 mm

FF10010 + FF10020 = 230 mm

FF10010 + FF10021 = 269 mm

Body Size Bursting Pressure connected

1/4" > 3200 bar

3/8" > 2000 bar

1/2" > 1500 bar

3/4" > 1500 bar

1" > 1100 bar

Technical Description

The coupling system of the FF series has double shut-off, dry break and single-handed operation. During disconnection there is no oil loss, and during coupling there is no inclusion of air into the system.

Advantages

- Dry break quick connect coupling.
- With minimum pressure drop.
- Single-handed operation.
- No oil loss during disconnection.
- A safety closing ring prevents unintentional disconnection.
- Twice as safe through double sealing.
- Also available with pressure eliminator, i.e. connection is possible under static/residual pressure up to working pressure.

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

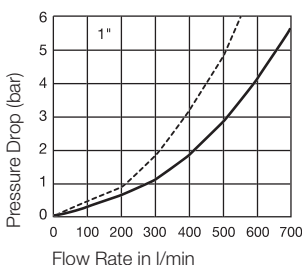
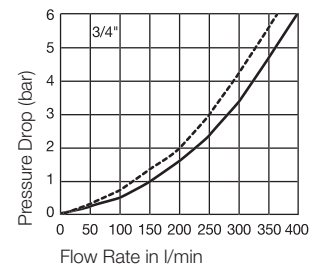
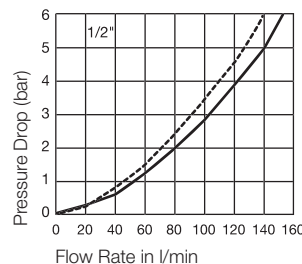
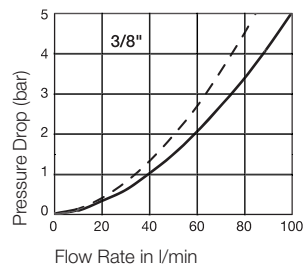
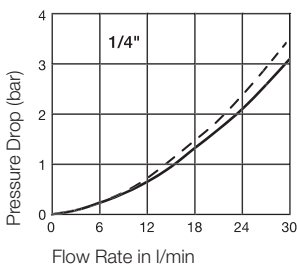


Material Coupling	Standard / Pressure Eliminator
Coupling Body	Steel, nitrocarburizing
Sleeve	Steel hardened, zinc plated, passivated, sealed
Locking Ring	Brass, zinc-iron coated, black passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 301
Locking Balls	AISI 420 C
Seals	NBR
Valve Holder	Steel, yellow zinc plated, sealed
Thread Body	Steel, zinc plated, passivated, sealed
Plug	Standard / Pressure Eliminator
Plug Body	Steel hardened, zinc plated, passivated, sealed
Valve	Steel, nitrocarburizing
Springs	AISI 301
Seals	NBR/PUR
Valve Holder	Brass, hard-drawn
Thread Body	Steel, zinc plated, passivated, sealed

Applications Area



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

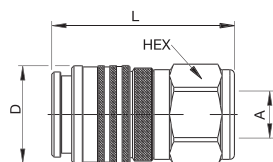


— Standard FF
- - - Plug side pressure eliminator

Couplings

FF-Series

Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
1/4"	G 1/4	27	65	30	800	Standard	NBR/PUR	FF2510
3/8"	G 3/8	36	76,5	40	500	Standard	NBR/PUR	FF3810
1/2"	G 1/2	40	82	44	450	Standard	NBR/PUR	FF5010 C
1/2"	G 1/2	40	82	44	450	Standard	FKM	FF5010 CV
1/2"	G 3/4	40	85	44	450	Standard	NBR/PUR	FF5010-75 C
1/2"	G 3/4	40	85	44	450	Standard	FKM	FF5010-75 CV
3/4"	G 3/4	50	98	55	400	Standard	NBR	FF7510 C
3/4"	G 3/4	50	98	55	400	Standard	FKM	FF7510 CV
3/4"	G 1	50	106	55	400	Standard	NBR	FF7510-100 C
3/4"	G 1	50	106	55	400	Standard	FKM	FF7510-100 CV
1"	G 1	65	129	70	350	Standard	NBR	FF10010 C
1"	G 1	65	129	70	350	Standard	FKM	FF10010 CV
1"	G 1 1/4	65	129	70	350	Standard	NBR	FF10010-125 C
1"	G 1 1/4	65	129	70	350	Standard	FKM	FF10010-125 CV
1"	G 1 1/2	65	129	70	350	Standard	NBR	FF10010-150 C
1"	G 1 1/2	65	129	70	350	Standard	FKM	FF10010-150 CV

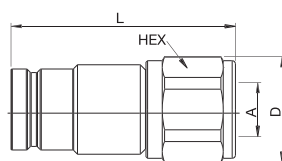


Female Thread

Plugs

FF-Series

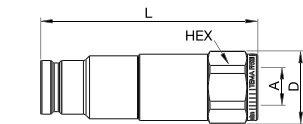
Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
1/4"	G 1/4	27	74	30	800	Standard	NBR/PUR	FF2520
3/8"	G 3/8	32	69	35	500	Standard	NBR/PUR	FF3820
1/2"	G 1/2	36	86	39	450	Standard	NBR/PUR	FF5020 C
1/2"	G 1/2	36	86	39	450	Standard	FKM	FF5020 CV
1/2"	G 3/4	36	90	39	450	Standard	NBR/PUR	FF5020-75 C
1/2"	G 3/4	36	90	39	450	Standard	FKM	FF5020-75 CV
3/4"	G 3/4	46	101	50	400	Standard	NBR/PUR	FF7520 C
3/4"	G 3/4	46	101	50	400	Standard	FKM	FF7520 CV
3/4"	G 1	46	106	50	400	Standard	NBR/PUR	FF7520-100 C
3/4"	G 1	46	106	50	400	Standard	FKM	FF7520-100 CV
1"	G 1	60	140	65	350	Standard	NBR/PUR	FF10020 C
1"	G 1	60	140	65	350	Standard	FKM	FF10020 CV
1"	G 1 1/4	60	140	65	350	Standard	NBR/PUR	FF10020-125 C
1"	G 1 1/4	60	140	65	350	Standard	FKM	FF10020-125 CV
1"	G 1 1/2	60	142	65	350	Standard	NBR/PUR	FF10020-150 C
1"	G 1 1/2	60	142	65	350	Standard	FKM	FF10020-150 CV



Female Thread

Plugs

FF-Series

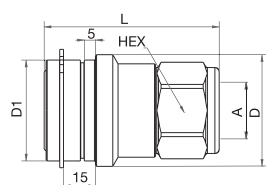


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Press. connect. in bar	Version	Seal	Part Number
1/4"	G 1/4	27	99	30		800	Press. Eliminator	NBR/PUR	FF2521
3/8"	G 3/8	32	98	35		500	Press. Eliminator	NBR/PUR	FF3821
1/2"	G 1/2	36	117	39		450	Press. Eliminator	NBR/PUR	FF5021 C
1/2"	G 1/2	36	117	39		450	Press. Eliminator	FKM	FF5021 CV
3/4"	G 3/4	46	139	50		400	Press. Eliminator	NBR/PUR	FF7521 C
1"	G 1	55	175	60		350	Press. Eliminator	NBR/PUR	FF10021 C

Couplings

FF-Series

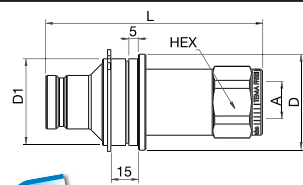


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Press. connect. in bar	Version	Seal	Part Number
1/2"	G 1/2	40	82	52	47	450	for Multiplate	NBR	FF5010 CE
1/2"	G 1/2	40	82	52	47	450	for Multiplate	FKM	FF5010 CEV
3/4"	G 3/4	50	98	66	60	400	for Multiplate	NBR	FF7510 CE
3/4"	G 3/4	50	98	66	60	400	for Multiplate	FKM	FF7510 CEV

Plugs

FF-Series

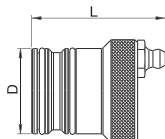


Female Thread

Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Press. connect. in bar	Version	Seal	Part Number
1/2"	G 1/2	36	117	52	47	450	Press. El. f. Multiplate	NBR/PUR	FF5021 CE
3/4"	G 3/4	46	139	65	60	400	Press. El. f. Multiplate	NBR/PUR	FF7521 CE

Lubrication Nipples

FF-Series



Body Size	Version	L mm	D mm	Part Number
1/2"	for coupling	48	29	GRF5
3/4"	for coupling	52	38	GRF7
1"	for coupling	52	50	GRF10

Seal-Kit

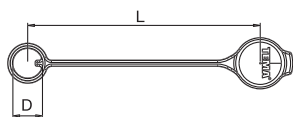
FF-Series

Body Size	Version	Material	Part Number
1/4"	for plugs	NBR/PUR	FF2500-PSNPU
3/8"	for plugs	NBR/PUR	FF3800-PSNPU
1/2"	for plugs	NBR/PUR	FF5000-PSNPU
1/2"	for plugs	FKM	FF5000-PSV
3/4"	for plugs	NBR/PUR	FF7500-PSNPU
3/4"	for plugs	FKM	FF7500-PSV
1"	for plugs	NBR/PUR	FF10000-PSNPU
1"	for plugs	FKM	FF10000-PSV

Dust Protection

FF-Series

Body Size	Version	L mm	D mm	Material	Color	Part Number
1/4"	for coupling	190	24	PVC	Blue	FF2516
1/4"	for plug	190	24	PVC	Blue	FF2526
3/8"	for coupling	190	28	PVC	Blue	FF3816
3/8"	for plug	190	28	PVC	Blue	FF3826
1/2"	for coupling	220	28	PVC	Blue	FF5016
1/2"	for plug	220	28	PVC	Blue	FF5026
3/4"	for coupling	250	42	PVC	Blue	FF7516
3/4"	for plug	250	42	PVC	Blue	FF7526
1"	for coupling	290	51	PVC	Blue	FF10016
1"	for plug	290	51	PVC	Blue	FF10026



Further colors on request.