



NEW
MODELS

Series **FLAT FACE**



▶ Flat-face quick-release couplings

FASTER[®]
think faster



► **FLAT-FACE QUICK-RELEASE COUPLINGS**



Features

- Flat-face shut-off valves: easy to clean.
- No spillage during connection and disconnection.
- Rolled surfaces in sealing area to ensure the lowest roughness.
- Internal components purposely designed to reduce turbulences and consequent pressure drop.
- PTFE back-up ring: great resistance to pressure peaks.
- Springs exposed to atmosphere made of stainless steel.
- Quick-release couplings according to FASTER profile or interchangeable to ISO 16028 and HTMA standards.
- Wide range of threads and connectors (BSP, NPT, metrics, SAE,...).
- On request FPQ FASTER Premier Quality surface treatment (standard on 3FFV couplings).
- Accessories and spare parts kit available with detailed assembling instructions.

MALE COUPLINGS

- Balls racing area induction hardened.
- Polyurethane seal with special profile and easily replaceable.
- Wide range of models: single valve version (FF), double valve versions (2FF) for pressure containing and versions for connection under pressure 3FFI.
- Automatic slider made of steel to protect connection threads (3FFV).

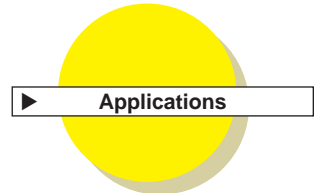
FEMALE COUPLINGS

- Easy maintenance by seals replacement.
- Patented single body valve in female part: great resistance to vibrations.
- Polyurethane seal with special profile and chamfered washer.
- Valve locking by semiguides in sintered steel (FASTER patent) with great flow section.
- Carbonitrided sleeve.
- Great number of latching balls.
- Safety sleeve with double ball to prevent accidental disconnection.
- Push-pull female couplings FFI series suitable for rigid tube.
- Push-pull female couplings 5FPI series suitable for rigid tube, connectable under working pressure.
- Versions available for connection under working pressure (3FFI series) and with latching sectors (2FSI series) suitable for pulsing pressure applications.
- Additional safety sleeve with double function: against accidental disconnection and to signal that connection is fully achieved (3FFV).



► **Benefits**

- Quick-release couplings according to FASTER profile or interchangeable to ISO 16028 and HTMA standards.
- Easy connection: "Push" system.
- Mating surfaces are perfectly flat: easy to clean.
- Neither oil spillage nor air inclusions during connection.
- Very compact.
- Polyurethane seals are very resistant to wear due to dirt and dust inclusions.
- Easy maintenance and seals replacement.
- Connection allowed even at residual pressure (roughly up to 4 MPa) without seal damages (FFN, FFI series).
- Easy seals replacement both in male and in female coupling.
- Wide range of threaded adaptors (BSP, NPT, metrics, SAE) for every connection need.
- Automatic protection slider on male part prevents accidental damages to connection threads (3FFV series).
- FPQ (FASTER Premier Quality) surface treatment to stand corrosion gives a higher protection than standard zinc plating with Cr III passivation. Treatment available on request; standard on 3FFV series.



Applications

FASTER® flat-face couplings are studied for all those applications where, for safety reasons or environment care, it is absolutely necessary not to leak oil during connection and disconnection, and where couplings have to be used in dirty and dusty atmosphere. For instance next to high voltage cables, to connect hydraulic tools on aerial platforms, in mines, building sites, dockyards, railway yards, etc... In addition to that, 3FFV couplings are connectable under full working pressure and are particularly suitable for pulsing pressure applications and when vibrations or hoses torsion may occur.

► **Guarantee**

- All **FASTER®** quick-release couplings are designed and produced in conformity with the regulations of Quality Managing System according to **UNI EN ISO 9001** and **UNI ISO/TS 16949 Standards**.
- They bear the **FASTER®** logo to guarantee their origin and reliability.
- **FASTER®** quick-release couplings are distributed worldwide through a network of highly qualified distributors.
- If a **FASTER®** quick-release coupling is connected to a correspondent competitor's type please **check the functionality, the sealing and the resistance to working pressure before using the coupling**.
- **Faster can not assure the performance, quality and connecting tolerances of competitor's types.**
- Malfunctioning or leakages due to the above mentioned cases could cause serious damages to persons and machines.

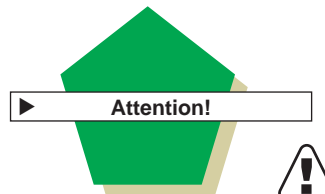


UNI EN ISO 9001
Cert. n° 2905
ISO/TS 16949





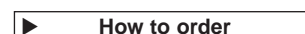
- **Improper use and incorrect maintenance of products with high internal working pressures could cause malfunctioning and damage to persons and machines.**
- Therefore it is necessary to carefully conform to the simple instructions included in this catalogue. **For any further information please contact FASTER Research & Development Dept.**
- Before using a new quick-release coupling, please carefully check all data reported in our catalogues.
- Make sure that the coupling is suitable for pressure and flow characteristics requested by the applications.
- Lubricate the seals and perform a connect and disconnect operation in order to check the perfect functioning of the coupling.
- Verify that threads fit and the correctness of their sealing.
- If necessary replace damaged components with **FASTER® original spare parts.**
- **Before any connection and disconnection carefully clean both male and female parts** to prevent dirt inclusions into the circuit and consequent seal damage.
- During the first applications of the coupling, be sure that no one is in the nearby and test the coupling under the maximum working pressure when connected and disconnected.
- The most critical moment in flat-face couplings takes place during the coupling phase when the valve in the male part moves and causes an internal volume reduction.
- This fact causes a pressure increase due to the oil quantity existing in the plant.
- Furthermore, during that operation, the sealing action of the seal in male part has to shift from the male valve to the female.
- In order to resist to internal stresses, FASTER has designed the male couplings of 2FF... series, equipped with a **patented double valve**: no more troubles due to seal extrusion without rigid PTFE covered seals, very sensitive to dirt inclusions.
- Thanks to the patented Faster technology the new quick-release coupling 3FFI series male and female part can be connected under 25 MPa pressure with standard female and male parts respectively 2FFI and FFI series.



- If the connection phase is carried out at residual pressure, the required force could be higher than the human one, therefore it is necessary to reduce the internal pressure of the coupling.
- Dirt on male or female part during coupling operations can cause seals damage.
- In order to ensure long service life of seals it is recommended to carefully clean mating parts, easily and quickly done thanks to coupling design.
- In case of seals damage it is necessary to replace them by **FASTER® original spare parts.**
- The 3FFV series quick-release couplings can be connected under full working pressure. The necessary force to connect is proportional to the internal pressure and in case it is very high is possible to use standard tools thanks to the special shape of the sleeve.
- When disconnected, use suitable **FASTER® covers** to protect couplings from dirt.
- In case of jamming problems due to dirt inclusion, the new **FASTERCLEANER®** purposely studied by Faster, is the ideal product to loosen, lubricate and protect the quick-release coupling (page 41).
- **FASTERGREASE** is the ideal product to lubricate and grease moving parts (page 41).



- The recommendations stated in this catalogue do not consider all risk factors in every possible application of **FASTER®** couplings.
- The final choice of the product is under customer's responsibility who has to make the selection according to **FASTER®** suggestions.
- The customer has to make sure that all requirements of chosen parts are respected, efficiency is maintained and the end user is informed about use and maintenance operations.
- **FASTER®** and its Distributors are not responsible for damages to persons and machines caused by an improper use and an incorrect maintenance of products.
- Increase of products' technical and functional features is **FASTER®**'s policy. For that reason all data in this catalogue are not binding. **FASTER®** is entitled to modify the specifications without prior notice.



See available item codes in the ordering chart.

As a further help in defining and selecting the most suitable product for specific application please ask and fill-in with as much information as possible the Product Definition Form (mod. A003) sending it back to **Faster Customer Service**. Product definition form can be directly downloaded from the website www.faster.it in the product section.

NEW



- Zinc plating with Cr III passivation on the whole range.
- 2FSI series (page 24)
- 3FFI series (page 26)
- FFI series (page 32)
- 5FFI series (page 34)
- Fastercleaner® (page 41)
- Fastergrease (page 41)

Flat-face quick-release couplings
FF, 2FF series



In the picture

Series **2F**



► **THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLING**

- 1) No spillage during connection and disconnection.
- 2) FASTER® technology patented.
- 3) No extrusion troubles thanks to special profile Polyurethane seals.
- 4) Easy to clean thanks to flat mating surfaces.
- 5) Seals replacement is very easy.
- 6) 2FFI and 2FFN38 series couplings interchangeable according to ISO 16028 and HTMA standards.

FEATURES

- • **Connection system:** pushing the male coupling
- • **Disconnection system:** pulling back the sleeve
- • **Shut-off system:** flat valve (male coupling with double valve)
- • **Connectability:** without pressure
- • **Disconnection under pressure:** not allowed
- • **Interchangeability:** according to ISO 16028 and HTMA standard
- ★ • Balls-bearing latching system
- ★ • Male couplings with double valve
- ▲ • Available versions made of AISI 316 stainless steel (see page 20)
- ▲ • Available versions with Faster Premier Quality (FPQ) surface treatment (see page 40)



Patent Application Pending

Technical data

(▲)

Size	ISO size	DN Nominal diameter		Rated flow		Force to connect		Max. work. pressure *		Minimum burst pressure						Fluid spillage cc max.	
		mm	inc.	l/min	GPM	N	lb	MPa	PSI	Connected		Male		Female			
										MPa	PSI	MPa	PSI	MPa	PSI		
3/8"	06	10	9	0,35	45	11,9	200	44	25	3625	140	20300	120	17400	100	14500	0,008

*Safety factor = 1:4 - for static pressure safety factor 1:2

(▲) with 2FFN38 male couplings equivalent size

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Male in high grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

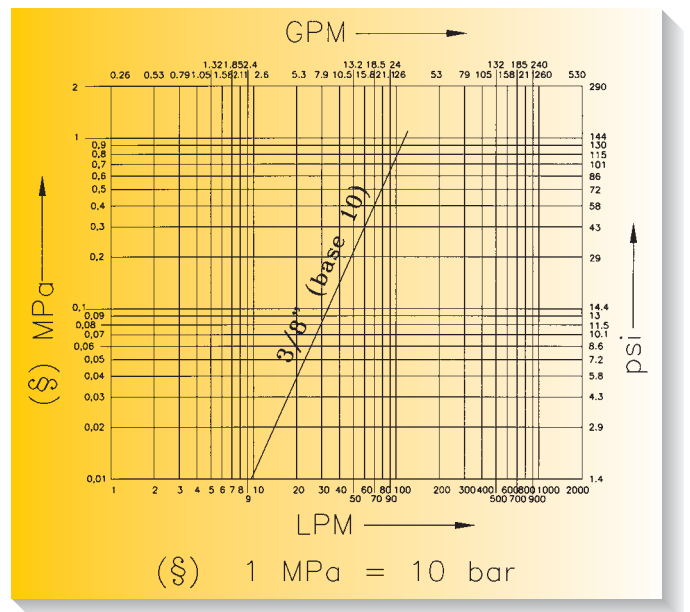
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

Working temperatures:

with standard seals from -25°C (-13°F) to +100°C (+212°F). For different temperature, the quick-release coupling will be supplied with the appropriate seals.



The descriptions and illustrations in this catalogue are for information only and are not binding.

► **FEATURES**

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve (male coupling with double valve)
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to Faster internal standard (3/8" size according to ISO 16028 and HTMA standard)
- Balls-bearing latching system
- Male couplings with double valve



Patent Application Pending

► **Technical data**



Size ❖	DN Nominal diameter		Rated flow		Force to connect		Max. work. pressure *		Minimum burst pressure						Fluid spillage cc max.	
	mm	inc.	l/min	GPM	N	lb	MPa	PSI	Connected		Male		Female			
									MPa	PSI	MPa	PSI	MPa	PSI		
3/8"	06	see 2FFN38 series page 6								see 2FFN38 series page 6						
1/2"	08	11	0,43	72	19	205	45,2	25	3625	115	16675	110	15950	100	14500	0,01
3/4"	12	16	0,63	150	39,7	240	52,9	25	3625	120	17400	130	18850	100	14500	0,02
1"	16	18	0,71	200	52,9	240	52,9	25	3625	110	15950	110	15950	100	14500	0,03

*Safety factor = 1:4 - for static pressure safety factor 1:2
 (▲) with 2FFN male couplings equivalent size

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Male in high grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

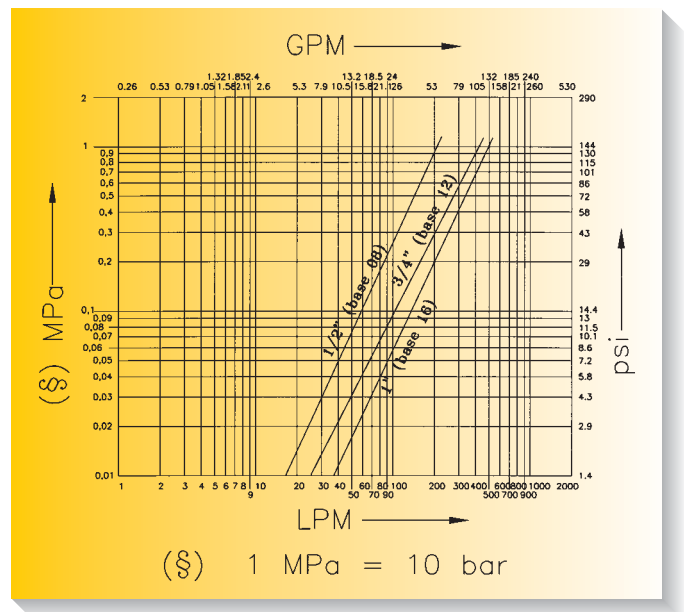
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

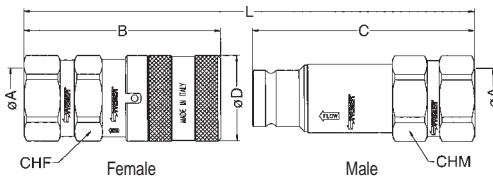
Working temperatures:

with standard seals from -25°C (-13F°) to +100°C (+212F°). For different temperature, the quick-release coupling will be supplied with the appropriate seals.



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Series **2FN**



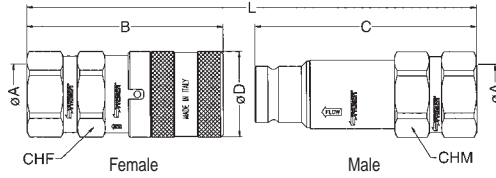
Series	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P			
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	see 2FFN38 series																					
	06	2FFN12 GAS F	2FFN12 GAS M	1/2" BSP	DIN 3852-2-X	82,4	3,24	87,5	3,44	40	1,57	152,4	6,00	32	1,26	32	1,26					
	08	2FFN12-34 GAS F	2FFN12-34 GAS M	3/4" BSP	DIN 3852-2-X	84	3,30	92,5	3,64	40	1,57	161,4	6,35	32	1,26	32	1,26					
		2FFN12 NPT F	2FFN12 NPT M	1/2" NPTF	ANSI B1.20.3	82,4	3,24	87,5	3,44	40	1,57	142,4	5,61	32	1,26	32	1,26					
		*2FFN12-34 NPT F	*2FFN12-34 NPT M	3/4" NPTF	ANSI B1.20.3	86,4	3,40	92,5	3,64	40	1,57	161,4	6,35	32	1,26	32	1,26					
		*2FFN12 JPT F	*2FFN12 JPT M	1/2" JPT	JIS B 0203	82,4	3,24	87,5	3,44	40	1,57	142,4	5,61	32	1,26	32	1,26					
	12	2FFN34 GAS F	2FFN34 GAS M	3/4" BSP	DIN 3852-2-X	96,3	3,79	106,5	4,19	48	1,89	181,8	7,16	41	1,61	41	1,61					
		2FFN34-1 GAS F	2FFN34-1 GAS M	1" BSP	DIN 3852-2-X	96,3	3,79	106,5	4,19	48	1,89	181,8	7,16	41	1,61	41	1,61					
		2FFN34 NPT F	2FFN34 NPT M	3/4" NPTF	ANSI B1.20.3	96,3	3,79	106,5	4,19	48	1,89	181,8	7,16	41	1,61	41	1,61					
		2FFN34-1 NPT F	2FFN34-1 NPT M	1" NPTF	ANSI B1.20.3	96,3	3,79	106,5	4,19	48	1,89	181,8	7,16	41	1,61	41	1,61					
16	*2FFN34 JPT F	*2FFN34 JPT M	3/4" JPT	JIS B 0203	96,3	3,79	106,5	4,19	48	1,89	181,8	7,16	41	1,61	41	1,61						
	2FFN1 GAS F	2FFN1 GAS M	1" BSP	DIN 3852-2-X	100,5	3,96	119,2	4,69	60	2,36	197,2	7,76	46	1,81	46	1,81						
	2FFN1 NPT F	2FFN1 NPT M	1" NPTF	ANSI B1.20.3	100,5	3,96	119,2	4,69	60	2,36	197,2	7,76	46	1,81	46	1,81						
	*2FFN1 JPT F	*2FFN1 JPT M	1" JPT	JIS B 0203	100,5	3,96	119,2	4,69	60	2,36	197,2	7,76	46	1,81	46	1,81						
	2FFN1 JPT F	2FFN1 JPT M	1" JPT	JIS B 0203	100,5	3,96	119,2	4,69	60	2,36	197,2	7,76	46	1,81	46	1,81						
	2FFN1-114 GAS F	2FFN1-114 GAS M	1" 1/4 BSP	DIN 3852-2-X	102,5	4,03	121,7	4,79	60	2,36	201,7	7,94	55	2,17	55	2,17						
	see 2FFN38 series																					
	06	2FFN12-12 SAE F	2FFN12-12 SAE M	3/4" UNF	SAE J 1926-1	82,4	3,24	87,5	3,44	40	1,57	152,5	6,00	32	1,26	32	1,26					
	08	2FFN12-34 SAE F	2FFN12-34 SAE M	1" 1/16 UN	SAE J 1926-1	86,9	3,42	92,5	3,64	40	1,57	161,9	6,37	34	1,34	34	1,34					
		*2FFN34-12 SAE F	*2FFN34-12 SAE M	3/4" UNF	SAE J 1926-1	96,3	3,79	104,9	4,13	48	1,89	180,2	7,09	41	1,61	41	1,61					
	12	2FFN34-34 SAE F	2FFN34-34 SAE M	1" 1/16 UN	SAE J 1926-1	96,3	3,79	104,9	4,13	48	1,89	180,2	7,09	41	1,61	41	1,61					
		*2FFN1-1 SAE F	*2FFN1-1 SAE M	1" 5/16 UN	SAE J 1926-1	100,5	3,96	119,2	4,69	60	2,36	197,2	7,76	46	1,81	46	1,81					
	16	*2FFN1-114S F	*2FFN1-114S M	1" 5/8 UN	SAE J 1926-1	103	4,06	121,7	4,79	60	2,36	202,2	7,96	55	2,17	55	2,17					
		see 2FFN38 series																				
	08	*2FFN12-1/12G F	*2FFN12-1/12G M	1/2" BSP	DIN 3852-2-B	84	3,31	88	3,46	40	1,57	154,5	6,08	32	1,26	32	1,26					
		*2FFN12-1/12N F	*2FFN12-1/12N M	1/2" NPTF	ANSI B1.20.3	84	3,31	88	3,46	40	1,57	154,5	6,08	32	1,26	32	1,26					
*2FFN12-1/12S F		*2FFN12-1/12S M	3/4" UNF	SAE J 1926-3	84	3,31	88	3,46	40	1,57	154,5	6,08	32	1,26	32	1,26						
*2FFN34-1/34 SAE F		*2FFN34-1/34 SAE M	1" 1/16 UNF	SAE J 1926-3	102	4,02	115	4,53	48	1,89	196	7,72	41	1,61	41	1,61						
16	*2FFN1-1/1 SAE F	*2FFN1-1/1 SAE M	1" 5/16 UN	SAE J 1926-3	103	4,06	122	4,80	60	2,36	202,5	7,97	46	1,81	46	1,81						
	2FFN1-1/114S F	2FFN1-1/114S M	1" 5/8 UN	SAE J 1926-3	100,6	3,96	123,3	4,85	60	2,36	201,4	7,93	50	1,97	50	1,97						
	see 2FFN38 series																					
	06	*2FFN12-2/1815 F	*2FFN12-2/1815 M	M 18x1,5	ISO 8434-1-L	80,9	3,19	80,8	3,18	40	1,57	144,2	5,68	32	1,26	32	1,26	12,2	0,48			
	08	2FFN12-2/2215 F	2FFN12-2/2215 M	M 22x1,5	ISO 8434-1-L	81,9	3,22	81,8	3,22	40	1,57	146,2	5,76	32	1,26	32	1,26	15,2	0,60			
		*2FFN12-2/2615 F	*2FFN12-2/2615 M	M 26x1,5	ISO 8434-1-L	84	3,31	83,9	3,30	40	1,57	150,4	5,92	32	1,26	32	1,26	18,2	0,72			
		*2FFN34-2/2615 F	*2FFN34-2/2615 M	M 26x1,5	ISO 8434-1-L	101,8	4,01	115	4,53	48	1,89	195,8	7,71	41	1,61	41	1,61	18,2	0,72			
	12	*2FFN34-2/302 F	*2FFN34-2/302 M	M 30x2	ISO 8434-1-L	101,8	4,01	115	4,53	48	1,89	195,8	7,71	41	1,61	41	1,61	20,2	0,80			
		*2FFN1-2/302 F	*2FFN1-2/302 M	M 30x2	ISO 8434-1-L	103	4,06	122	4,80	60	2,36	202,5	7,97	46	1,81	46	1,81	20,2	0,80			
		see 2FFN38 series																				
		06	*2FFN12-3/2415 F	*2FFN12-3/2415 M	M 24x1,5	ISO 8434-1-S	83,9	3,30	88,2	3,47	40	1,57	154,6	6,09	32	1,26	32	1,26	16,2	0,64		
		12	2FFN34-3/302 F	2FFN34-3/302 M	M 30x2	ISO 8434-1-S	101,8	4,01	115	4,53	48	1,89	195,8	7,71	41	1,61	41	1,61	20,2	0,80		
*2FFN34-3/362 F			*2FFN34-3/362 M	M 36x2	ISO 8434-1-S	103,8	4,09	117	4,61	48	1,89	199,8	7,87	41	1,61	41	1,61	25,2	0,99			
16		*2FFN1-3/362 F	*2FFN1-3/362 M	M 36x2	ISO 8434-1-S	103,5	4,07	122	4,80	60	2,36	203	7,99	46	1,81	46	1,81	25,2	0,99			
		see 2FFN38 series																				
		06	*2FFN12-4/12G F	*2FFN12-4/12G M	1/2" BSP	DIN 3863	100	3,94	100	3,94	40	1,57	182,5	7,19	32	1,26	32	1,26			35	1,38
		08	*2FFN12-4/58G F	*2FFN12-4/58G M	5/8" BSP	DIN 3863	100	3,94	100	3,94	40	1,57	182,5	7,19	32	1,26	32	1,26			35	1,38
			*2FFN12-4/1815 F	*2FFN12-4/1815 M	M 18x1,5	DIN 3863	100	3,94	100	3,94	40	1,57	182,5	7,19	32	1,26	32	1,26			35	1,38
			*2FFN12-4/2215 F	*2FFN12-4/2215 M	M 22x1,5	DIN 3863	100	3,94	100	3,94	40	1,57	182,5	7,19	32	1,26	32	1,26			35	1,38
	12	*2FFN34-4/2615 F	*2FFN34-4/2615 M	M 26x1,5	DIN 3863	107	4,21	107	4,21	48	1,89	193	7,60	41	1,61	41	1,61			35	1,38	
		*2FFN1-4/302 F	*2FFN1-4/302 M	M 30x2	DIN 3863	108	4,25	110	4,33	60	2,36	195,5	7,70	46	1,81	46	1,81			35	1,38	
		see 2FFN38 series																				
		06	*2FFN12-5/1815 F	*2FFN12-5/1815 M	M 18x1,5	ISO 8434-1-L	104,9	4,13	109,2	4,30	40	1,57	196,6	7,74	32	1,26	32	1,26	12,2	0,48	36	1,42
		08	*2FFN12-5/2215 F	*2FFN12-5/2215 M	M 22x1,5	ISO 8434-1-L	104,9	4,13	109,2	4,30	40	1,57	196,6	7,74	32	1,26	32	1,26	15,2	0,60	38	1,49
*2FFN12-5/2615 F			*2FFN12-5/2615 M	M 26x1,5	ISO 8434-1-L	104,9	4,13	109,2	4,30	40	1,57	196,6	7,74	32	1,26	32	1,26	18,2	0,72	40	1,57	
*2FFN34-5/2615 F			*2FFN34-5/2615 M	M 26x1,5	ISO 8434-1-L	121	4,76	134	5,28	48	1,89	234	9,21	41	1,61	41	1,61	18,2	0,72	40	1,57	
12		*2FFN34-5/302 F	*2FFN34-5/302 M	M 30x2	ISO 8434-1-L	121	4,76	134	5,28	48	1,89	234	9,21	41	1,61	41	1,61	22,2	0,87	42	1,65	
		*2FFN1-5/302 F	*2FFN1-5/302 M	M 30x2	ISO 8434-1-L	122	4,80	141	5,55	60	2,36	240,5	9,47	46	1,81	46	1,81	22,2	0,87	42	1,65	
		see 2FFN38 series																				
		06	*2FFN12-6/2415 F	*2FFN12-6/2415 M	M 24x1,5	ISO 8434-1-S	104,9	4,13	104,1	4,10	40	1,57	191,5	7,54	32	1,26	32	1,26	16,2	0,64	40	1,57
		12	*2FFN34-6/302 F	*2FFN34-6/302 M	M 30x2	ISO 8434-1-S	121	4,76	134	5,28	48	1,89	234	9,21	41	1,61	41	1,61	20,2	0,80	44	1,73
	*2FFN1-6/362 F		*2FFN1-6/362 M	M 36x2	ISO 8434-1-S	122	4,80	143,2	5,64	60	2,36	242,7	9,56	46	1,81	46	1,81	25,2	0,99	47	1,85	

◆ ISO size GAS = BSP *On request

Follows page 10

Available items

Series **2FFN**



❖	Female		Male		Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P	
							mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	see 2FFN38 series																					
06																						
08	*2FFN12-7/1815 F	*2FFN12-7/1815 M	M 18x1,5	ISO 8434-1-L	95,9	3,78	100,2	3,94	40	1,57	178,6	7,03	34	1,34	32	1,26	12,2	0,48	26	1,02		
	*2FFN12-7/2215 F	*2FFN12-7/2215 M	M 22x1,5	ISO 8434-1-L	95,9	3,78	100,2	3,94	40	1,57	178,6	7,03	34	1,34	32	1,26	15,2	0,60	26	1,02		
12	*2FFN34-7/2615 F	*2FFN34-7/2615 M	M 26x1,5	ISO 8434-1-L	112	4,41	125	4,92	48	1,89	216	8,50	41	1,61	41	1,61	18,2	0,72	30	1,18		
	*2FFN34-7/302 F	*2FFN34-7/302 M	M 30x2	ISO 8434-1-L	112	4,41	125	4,92	48	1,89	216	8,50	41	1,61	41	1,61	22,2	0,87	32	1,26		
16	*2FFN1-7/302 F	*2FFN1-7/302 M	M 30x2	ISO 8434-1-L	113	4,45	132	5,20	60	2,36	222,5	8,76	46	1,81	46	1,81	22,2	0,87	32	1,26		
	see 2FFN38 series																					
06																						
08	*2FFN12-8/2415 F	*2FFN12-8/2415 M	M 24x1,5	ISO 8434-1-S	95,9	3,78	100,2	3,94	40	1,57	178,6	7,03	34	1,34	32	1,26	16,2	0,64	30	1,18		
	*2FFN34-8/302 F	*2FFN34-8/302 M	M 30x2	ISO 8434-1-S	112	4,41	125	4,92	48	1,89	216	8,50	41	1,61	41	1,61	20,2	0,80	34	1,34		
16	*2FFN1-8/362 F	*2FFN1-8/362 M	M 36x2	ISO 8434-1-S	113	4,45	134	5,28	60	2,36	224,5	8,84	46	1,81	46	1,81	25,2	0,99	37	1,49		
	see 2FFN38 series																					
06																						
08	*2FFN12-11/12S F	*2FFN12-11/12S M	13/16" UN	ISO 8434-3	82,7	3,26	87	3,43	40	1,57	152,2	5,99	32	1,26	32	1,26						
	*2FFN12-11/58S F	*2FFN12-11/58S M	1" UNS	ISO 8434-3	85,4	3,36	89,7	3,53	40	1,57	157,6	6,20	32	1,26	32	1,26						
12	*2FFN12-11/34S F	*2FFN12-11/34S M	1" 3/16 UN	ISO 8434-3	86,9	3,42	91,2	3,59	40	1,57	160,6	6,32	32	1,26	32	1,26						
	*2FFN34-11/34S F	*2FFN34-11/34S M	1" 3/16 UN	ISO 8434-3	103	4,06	116	4,57	48	1,89	198	7,80	42	1,65	42	1,65						
16	*2FFN1-11/1S F	*2FFN1-11/1S M	1" 7/16 UN	ISO 8434-3	104,5	4,11	123	4,84	60	2,36	205	8,07	46	1,81	46	1,81						
	see 2FFN38 series																					
06																						
08	*2FFN12-12/12S F	*2FFN12-12/12S M	13/16" UN	ISO 8434-3	108,4	4,27	112,7	4,44	40	1,57	203,6	8,02	32	1,26	32	1,26					36,5	1,44
	*2FFN12-12/58S F	*2FFN12-12/58S M	1" UNS	ISO 8434-3	108,4	4,27	112,7	4,44	40	1,57	203,6	8,02	32	1,26	32	1,26					40,5	1,59
12	*2FFN12-12/34S F	*2FFN12-12/34S M	1" 3/16 UN	ISO 8434-3	109,4	4,31	113,7	4,48	40	1,57	205,6	8,09	32	1,26	32	1,26					41,5	1,63
	*2FFN34-12/34S F	*2FFN34-12/34S M	1" 3/16 UN	ISO 8434-3	125,3	4,93	138,5	5,45	48	1,89	242,8	9,56	41	1,61	41	1,61					41,5	1,63
16	*2FFN34-12/1S F	*2FFN34-12/1S M	1" 7/16 UN	ISO 8434-3	126	4,96	138,5	5,45	48	1,89	243,5	9,59	41	1,61	41	1,61					42	1,65
	*2FFN1-12/1S F	*2FFN1-12/1S M	1" 7/16 UN	ISO 8434-3	126	4,96	145	5,71	60	2,36	248,5	9,78	46	1,81	46	1,81					42	1,65
	see 2FFN38 series																					
06																						
08	*2FFN12-13/12S F	*2FFN12-13/12S M	3/4" UNF	ISO 8434-2	87	3,43	91	3,58	40	1,57	160,5	6,32	32	1,26	32	1,26						
	2FFN34-13/34S F	2FFN34-13/34S M	1" 1/16 UN	ISO 8434-2	107,8	4,24	121	4,76	48	1,89	207,8	8,18	42	1,65	42	1,65						
08	*2FFN1-13/1S F	*2FFN1-13/1S M	1" 5/16 UN	ISO 8434-2	110	4,33	129	5,08	60	2,36	216,5	8,52	46	1,81	46	1,81						
	see 2FFN38 series																					
06																						
08	*2FFN12-14/12S F	*2FFN12-14/12S M	3/4" UNF	ISO 8434-2	109,9	4,33	114,3	4,50	40	1,57	206,7	8,14	34	1,34	34	1,34					36,6	1,44
	*2FFN12-14/58S F	*2FFN12-14/58S M	7/8" UNF	ISO 8434-2	109,9	4,33	114,3	4,50	40	1,57	206,7	8,14	34	1,34	34	1,34					40,1	1,58
12	*2FFN12-14/34S F	*2FFN12-14/34S M	1" 1/16 UN	ISO 8434-2	114,3	4,50	118,7	4,67	40	1,57	215,5	8,48	34	1,34	34	1,34					44,4	1,75
	*2FFN34-14/34S F	*2FFN34-14/34S M	1" 1/16 UN	ISO 8434-2	130,2	5,13	143,4	5,65	48	1,89	252,6	9,94	41	1,61	41	1,61					44,4	1,75
16	*2FFN1-14/1S F	*2FFN1-14/1S M	1" 5/16 UN	ISO 8434-2	132	5,20	151	5,94	60	2,36	260,5	10,26	46	1,81	46	1,81					44,4	1,75
	see 2FFN38 series																					
06																						
08	*2FFN12-16/12G F	*2FFN12-16/12G M	1/2" BSP	DIN 3863	83,9	3,30	88,2	3,47	40	1,57	154,6	6,09	32	1,26	32	1,26						
	*2FFN12-16/1815 F	*2FFN12-16/1815 M	M 18x1,5	DIN 3863	83,9	3,30	88,2	3,47	40	1,57	154,6	6,09	32	1,26	32	1,26						
12	*2FFN12-16/2015 F	*2FFN12-16/2015 M	M 20x1,5	DIN 3863	83,9	3,30	88,2	3,47	40	1,57	154,6	6,09	32	1,26	32	1,26						
	*2FFN12-16/2215 F	*2FFN12-16/2215 M	M 22x1,5	DIN 3863	83,9	3,30	88,2	3,47	40	1,57	154,6	6,09	32	1,26	32	1,26						
16	*2FFN34-16/2615 F	*2FFN34-16/2615 M	M 26x1,5	DIN 3863	102	4,02	115	4,53	48	1,89	196	7,72	41	1,61	41	1,61						
16	*2FFN1-16/302 F	*2FFN1-16/302 M	M 30x2	DIN 3863	103	4,06	122	4,80	60	2,36	202,5	7,97	46	1,81	46	1,81						

❖ ISO size GAS = BSP *On request

FEATURES

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve (male coupling with double valve)
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to Faster internal standard
- Balls-bearing latching system
- Male couplings with double valve



Patent Application Pending

Technical data

Size ❖	DN Nominal diameter		Rated flow		Force to connect		Max. work. pressure *		Minimum burst pressure						Fluid spillage cc max.	
	mm	inc.	l/min	GPM	N	lb	MPa	PSI	Connected		Male		Female			
									MPa	PSI	MPa	PSI	MPa	PSI		
3/4"	12	16	0,63	150	39,7	240	52,9	25	3625	120	17400	120	17400	100	14500	0,02

*Safety factor = 1:4 - for static pressure safety factor 1:2

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Male in high grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

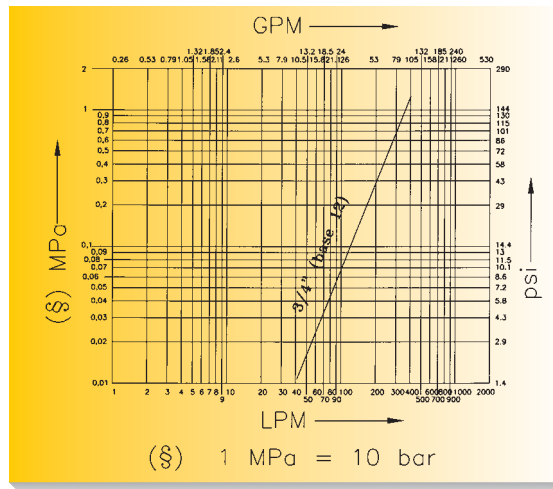
Standards in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

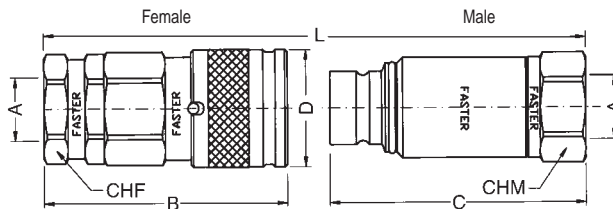
Working temperatures:

with standard seals from -25°C (-13°F) to +100°C (+212°F). For different temperature, the quick-release coupling will be supplied with the appropriate seals.



Available items

Series **2FFJ34**



❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P	
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	2FFJ34 GAS F	2FFJ34 GAS M	3/4" BSP	DIN 3852-2-X	101,3	3,99	106,5	4,19	48	1,89	187	7,36	42	1,65	42	1,65				
	2FFJ34-1 GAS F	2FFJ34-1 GAS M	1" BSP	DIN 3852-2-X	101,3	3,99	106,5	4,19	48	1,89	187	7,36	42	1,65	42	1,65				
	2FFJ34 NPT F	2FFJ34 NPT M	3/4" NPTF	ANSI B1.20.3	101,3	3,99	106,5	4,19	48	1,89	187	7,39	42	1,65	42	1,65				
	2FFJ34-1 NPT F	2FFJ34-1 NPT M	1" NPTF	ANSI B1.20.3	101,3	3,99	106,5	4,19	48	1,89	187	7,39	42	1,65	42	1,65				
	2FFJ34-34SAE F	2FFJ34-34SAE M	1" 1/16 UNF	SAE J 1926-1	101,3	3,99	104,9	4,13	48	1,89	185,2	7,29	42	1,65	42	1,65				
	2FFJ34-12/34S F	2FFJ34-12/34S M	1" 3/16 UNF	ISO 8434-3	130,3	5,13	138,5	5,45	48	1,89	247,8	9,76	42	1,65	42	1,65			41,5	1,63

❖ ISO size GAS = BSP *On request

FEATURES

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve (male coupling with double valve)
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to ISO 16028 and HTMA standards (except for 1-1/2", 2" and 3" size)
- Balls-bearing latching system
- Male couplings with double valve



Patent Application Pending

Technical data

(▲)

Size	ISO size	DN Nominal diameter		Rated flow		Force to connect		Max. work. pressure		Minimum burst pressure						Fluid spillage cc max.	
		mm	inc.	l/min	GPM	N	lb	*		Connected		Male		Female			
								MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI		
1/4"	04	6.3	7	0,27	18	4,7	125	27,5	32	4640	140	20300	150	21750	130	18850	0,006
3/8"	06	10	see 2FFN38 series page 6						see 2FFN38 series page 6								
1/2"	08	12.5	11	0,43	72	19	260	57,2	25	3625	140	20300	140	20300	100	14500	0,01
5/8"	10	16	14	0,55	140	37	240	52,9	25	3625	120	17400	see FFI - 3FFI series		100	14500	0,02
3/4"	12	19	16	0,63	150	39,7	240	52,9	25	3625	120	17400	see FFI - 3FFI series		100	14500	0,02
1"	16	25	18	0,71	200	52,9	240	52,9	25	3625	110	15950	see FFI - 3FFI series		100	14500	0,03
1 1/2"	24	-	see 2FSI series page 24														
2"	32	-	see 2FSI series page 24														
3"	48	-	see 2FSI series page 24														

*Safety factor = 1:4 - for static pressure safety factor = 1:2

(▲) With 2FFI male couplings equivalent size

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Male in high grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

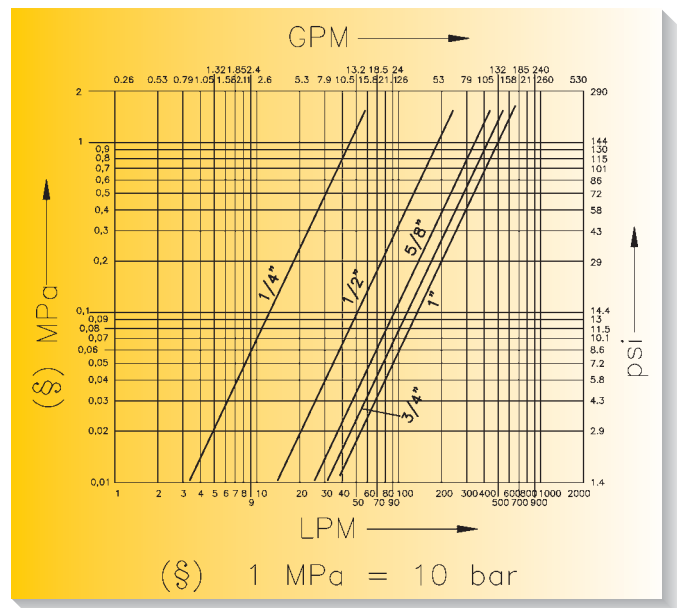
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane.
On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

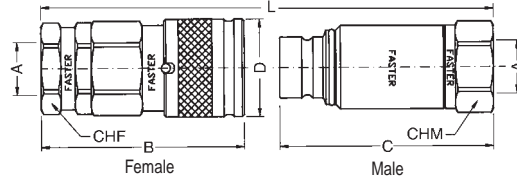
Working temperatures:

with standard seals from -25°C (-13°F) to +100°C (+212°F).
For different temperature, the quick-release coupling will be supplied with the appropriate seals.



The descriptions and illustrations in this catalogue are for information only and are not binding.

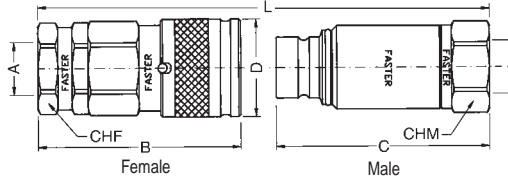
Series **2F**



Series	Female		Male		Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
	Part No.	Part No.	Part No.	Part No.			mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm
6,3	2FFI14 GAS F	2FFI14 GAS M	2FFI14 NPT F	2FFI14 NPT M	1/4" BSP	DIN 3852-2-X	58,6	2,31	60,3	2,37	27	1,06	108,4	4,27	24	0,94	24	0,94					
	2FFI14 NPT F	2FFI14 NPT M			1/4" NPTF	ANSI B1.20.3	58,6	2,31	60,3	2,37	27	1,06	108,4	4,27	24	0,94	24	0,94					
	*2FFI14 JPT F	*2FFI14 JPT M			1/4" JPT	JIS B 0203	58,6	2,31	60,3	2,37	27	1,06	108,4	4,27	24	0,94	24	0,94					
	see 2FFN38 series page 6																						
	10																						
12,5	2FFI12 GAS F	2FFI12 GAS M	2FFI12-34 GAS F	2FFI12-34 GAS M	1/2" BSP	DIN 3852-2-X	82,4	3,24	87,5	3,44	38	1,50	152,4	6,00	32	1,26	32	1,26					
	2FFI12-34 GAS F	2FFI12-34 GAS M			3/4" BSP	DIN 3852-2-X	86,4	3,40	92,5	3,64	38	1,50	161,4	6,35	32	1,26	34	1,34					
	2FFI12 NPT F	2FFI12 NPT M			1/2" NPTF	ANSI B1.20.3	82,4	3,24	87,5	3,44	38	1,50	152,4	6,00	32	1,26	32	1,26					
	2FFI12-34 NPT F	2FFI12-34 NPT M			3/4" NPTF	ANSI B1.20.3	86,4	3,40	92,5	3,64	38	1,50	161,4	6,35	32	1,26	34	1,34					
	*2FFI12 JPT F	*2FFI12 JPT M			1/2" JPT	JIS B 0203	82,4	3,24	87,5	3,44	38	1,50	152,4	6,00	32	1,26	32	1,26					
16	*2FFI58 GAS F	see FFI-3FFI series			5/8" BSP	DIN 3852-2-X	92	3,62			42	1,65			38	1,50							
	2FFI58-34 GAS F	see FFI-3FFI series			3/4" BSP	DIN 3852-2-X	92	3,62			42	1,65			38	1,50							
	*2FFI58 NPT F	see FFI-3FFI series			5/8" NPT	ANSI B1.20.3	92	3,62			42	1,65			38	1,50							
	*2FFI58-34 NPT F	see FFI-3FFI series			3/4" NPTF	ANSI B1.20.3	92	3,62			42	1,65			38	1,50							
19	2FFI34 GAS F	see FFI-3FFI series			3/4" BSP	DIN 3852-2-X	100,3	3,95			48	1,89			42	1,65							
	2FFI34-1 GAS F	see FFI-3FFI series			1" BSP	DIN 3852-2-X	100,3	3,95			48	1,89			42	1,65							
	2FFI34 NPT F	see FFI-3FFI series			3/4" NPTF	ANSI B1.20.3	100,3	3,95			48	1,89			42	1,65							
	*2FFI34-1 NPT F	see FFI-3FFI series			1" NPTF	ANSI B1.20.3	100,3	3,95			48	1,89			42	1,65							
25	2FFI1 GAS F	see FFI-3FFI series			1" BSP	DIN 3852-2-X	99,8	3,93			55	2,17			50	1,97							
	2FFI1 NPT F	see FFI-3FFI series			1" NPTF	ANSI B1.20.3	99,8	3,93			55	2,17			50	1,97							
24	see 2FSI series page 24																						
32	see 2FSI series page 24																						
48	see 2FSI series page 24																						
6,3	2FFI14-38SAE F	2FFI14-38SAE M			9/16" UNF	SAE J 1926-1	58,6	2,31	61,8	2,43	27	1,06	109,9	4,33	24	0,94	24	0,94					
10	see 2FFN38 series page 6																						
12,5	2FFI12-12SAE F	2FFI12-12SAE M	2FFI12-58SAE F	2FFI12-58SAE M	3/4" UNF	SAE J 1926-1	82,4	3,24	92,5	3,64	38	1,50	152,4	6,00	32	1,26	32	1,26					
	2FFI12-34SAE F	2FFI12-34SAE M			1" 1/16 UN	SAE J 1926-1	86,9	3,42	92,5	3,64	38	1,50	156,8	6,17	34	1,34	34	1,34					
	*2FFI58-58SAE F	see FFI-3FFI series			7/8" UNF	SAE J 1926-1	92	3,62			42	1,65			38	1,50							
16	2FFI58-34SAE F	see FFI-3FFI series			1" 1/16 UN	SAE J 1926-1	92	3,62			42	1,65			38	1,50							
	2FFI34-34SAE F	see FFI-3FFI series			1" 1/16 UN	SAE J 1926-1	100,3	3,95			48	1,89			42	1,65							
19	2FFI34-1SAE F	see FFI-3FFI series			1" 5/16 UN	SAE J 1926-1	101,5	4,00			48	1,89			42	1,65							
	2FFI1-1SAE F	see FFI-3FFI series			1" 5/16 UN	SAE J 1926-1	100,3	3,95			55	2,17			50	1,97							
6,3	*2FFI14-1/14G F	2FFI14-1/14G M	*2FFI14-1/14N F	2FFI14-1/14N M	1/4" BSP	DIN 3852-2-B	72,9	2,87	64,6	2,54	27	1,06	126,5	4,98	24	0,94	24	0,94					
	*2FFI14-1/14S F	*2FFI14-1/14S M			7/16" UNF	SAE J 1926-3	72,9	2,87	64,6	2,54	27	1,06	126,5	4,98	24	0,94	24	0,94					
	see 2FFN38 series page 6																						
10	see 2FFN38 series page 6																						
12,5	*2FFI12-1/12GAS F	*2FFI12-1/12GAS M	2FFI12-1/12NPT F	*2FFI12-1/12NPT M	1/2" BSP	DIN 3852-2-B	84	3,31	88	3,46	38	1,50	154,5	6,08	32	1,26	32	1,26					
	2FFI12-1/12S F	2FFI12-1/12S M			3/4" UNF	SAE J 1926-3	84	3,31	88	3,46	38	1,50	154,5	6,08	32	1,26	32	1,26					
	*2FFI12-1/12S F	*2FFI12-1/12S M			1/2" NPTF	ANSI B1.20.3	84	3,31	88	3,46	38	1,50	154,5	6,08	32	1,26	32	1,26					
16	2FFI58-1/58S F	see FFI-3FFI series			1" UNS	SAE J 1926-3	94	3,70			42	1,65			38	1,50							
19	*2FFI34-1/34S F	see FFI-3FFI series			1" 1/16 UNF	SAE J 1926-3	102	4,02			48	1,89			42	1,65							
25	*2FFI1-1/1S F	see FFI-3FFI series			1" 5/16 UN	SAE J 1926-3	104	4,09			55	2,17			50	1,97							
6,3	*2FFI14-2/1415 F	*2FFI14-2/1415 M	2FFI14-2/1615 F	*2FFI14-2/1615 M	M 14x1,5	ISO 8434-1-L	72,9	2,87	64,6	2,54	27	1,06	126,5	4,98	24	0,94	24	0,94	8,2	0,32			
					M 16x1,5	ISO 8434-1-L	72,9	2,87	64,6	2,54	27	1,06	126,5	4,98	24	0,94	24	0,94	10,2	0,40			
10	see 2FFN38 series page 6																						
12,5	2FFI12-2/1815 F	*2FFI12-2/1815 M	2FFI12-2/2215 F	*2FFI12-2/2215 M	M 18x1,5	ISO 8434-1-L	80,9	3,18	80,8	3,18	38	1,50	144,2	5,68	32	1,26	32	1,26	12,2	0,48			
					M 22x1,5	ISO 8434-1-L	81,9	3,22	81,8	3,22	38	1,50	146,2	5,76	32	1,26	32	1,26	15,2	0,60			
16	*2FFI58-2/2615 F	see FFI-3FFI series			M 26x1,5	ISO 8434-1-L	94	3,70			42	1,65			38	1,50			18,2	0,72			
19	*2FFI34-2/2615 F	see FFI-3FFI series			M 26x1,5	ISO 8434-1-L	105,8	4,17			48	1,89			42	1,65			18,2	0,72			
	*2FFI34-2/302 F	see FFI-3FFI series			M 30x2	ISO 8434-1-L	105,8	4,17			48	1,89			42	1,65			22,2	0,87			
25	*2FFI1-2/302 F	see FFI-3FFI series			M 30x2	ISO 8434-1-L	107	4,21			55	2,17			50	1,97			22,2	0,87			
6,3	*2FFI14-3/1415 F	*2FFI14-3/1415 M	2FFI14-3/1615 F	*2FFI14-3/1615 M	M 14x1,5	ISO 8434-1-S	72,9	2,87	64,6	2,54	27	1,06	126,5	4,98	24	0,94	24	0,94	6,2	0,24			
					M 16x1,5	ISO 8434-1-S	72,9	2,87	64,6	2,54	27	1,06	126,5	4,98	24	0,94	24	0,94	8,2	0,32			
10	see 2FFN38 series page 6																						
12,5	2FFI12-3/2415 F	*2FFI12-3/2415 M			M 24x1,5	ISO 8434-1-S	83,9	3,30	88,2	3,47	38	1,50	154,6	6,09	32	1,26	32	1,26	16,2	0,64			
16	*2FFI58-3/2415 F	see FFI-3FFI series			M 24x1,5	ISO 8434-1-S	94	3,70			42	1,65			38	1,50			16,2	0,64			
19	*2FFI34-3/302 F	see FFI-3FFI series			M 30x2	ISO 8434-1-S	105,8	4,17			48	1,89			42	1,65			20,2	0,80			
	*2FFI34-3/362 F	see FFI-3FFI series			M 36x2	ISO 8434-1-S	107,8	4,24			48	1,89			42	1,65			25,2	0,99			
25	*2FFI1-3/362 F	see FFI-3FFI series			M 36x2	ISO 8434-1-S	107	4,21			55	2,17			50	1,97			25,2	0,99			

* Size not ISO ♦ ISO size For 10 size see 2FFN38 at page 7 GAS = BSP *On request

Follows page 14

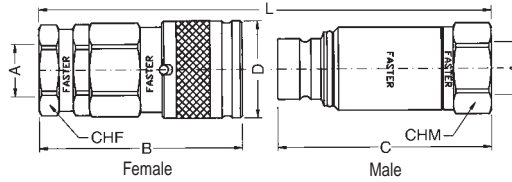


♀	Female		Male		Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
							mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	
	6,3	*2FFI14-5/1415 F	*2FFI14-5/1415 M	M 14x1,5	ISO 8434-1-L	94	3,70	86	3,39	27	1,06	169,5	6,67	24	0,94	24	0,94	8,2	0,32	34	1,34		
		*2FFI14-5/1615 F	*2FFI14-5/1615 M	M 16x1,5	ISO 8434-1-L	94	3,70	86	3,39	27	1,06	169,5	6,67	24	0,94	24	0,94	10,2	0,40	35	1,38		
	10	see 2FFN38 series																					
	12,5	*2FFI12-5/1815 F	*2FFI12-5/1815 M	M 18x1,5	ISO 8434-1-L	104,9	4,13	109,2	4,30	38	1,50	196,6	7,74	32	1,26	32	1,26	12,2	0,48	36	1,42		
		2FFI12-5/2215 F	2FFI12-5/2215 M	M 22x1,5	ISO 8434-1-L	104,9	4,13	109,2	4,30	38	1,50	196,6	7,74	32	1,26	32	1,26	15,2	0,60	38	1,49		
	16	*2FFI58-5/2615	see FFI-3FFI series	M 26x1,5	ISO 8434-1-L	115	4,53			42	1,65			38	1,50			18,2	0,72	40	1,57		
19	*2FFI34-5/2615 F	see FFI-3FFI series	M 26x1,5	ISO 8434-1-L	125	4,92			48	1,89			42	1,65			18,2	0,72	40	1,57			
	*2FFI34-5/302 F	see FFI-3FFI series	M 30x2	ISO 8434-1-L	125	4,92			48	1,89			42	1,65			22,2	0,87	42	1,65			
25	*2FFI1-5/302	see FFI-3FFI series	M 30x2	ISO 8434-1-L	128	5,04			55	2,17			50	1,97			22,2	0,87	42	1,65			
	6,3	*2FFI14-6/1415 F	*2FFI14-6/1415 M	M 14x1,5	ISO 8434-1-S	94	3,70	86	3,39	27	1,06	169,5	6,67	24	0,94	24	0,94	6,2	0,24	36	1,42		
		*2FFI14-6/1615 F	*2FFI14-6/1615 M	M 16x1,5	ISO 8434-1-S	94	3,70	86	3,39	27	1,06	169,5	6,67	24	0,94	24	0,94	8,2	0,32	36	1,42		
	10	see 2FFN38 series																					
	12,5	*2FFI12-6/2415 F	*2FFI12-6/2415 M	M 24x1,5	ISO 8434-1-S	104,9	4,13	104,1	4,10	38	1,50	191,5	7,54	32	1,26	32	1,26	16,2	0,64	40	1,57		
		*2FFI58-6/2415	see FFI-3FFI series	M 24x1,5	ISO 8434-1-S	115	4,53			42	1,65			38	1,50			16,2	0,64	40	1,57		
	16	*2FFI34-6/302 F	see FFI-3FFI series	M 30x2	ISO 8434-1-S	125	4,92			48	1,89			42	1,65			20,2	0,80	44	1,73		
25	*2FFI1-6/362 F	see FFI-3FFI series	M 36x2	ISO 8434-1-S	128	5,04			55	2,17			50	1,97			25,2	0,99	47	1,85			
	6,3	*2FFI14-7/1415 F	*2FFI14-7/1415 M	M 14x1,5	ISO 8434-1-L	85	3,35	77	3,03	27	1,06	151,5	5,96	24	0,94	24	0,94	8,2	0,32	26	1,02		
		*2FFI14-7/1615 F	*2FFI14-7/1615 M	M 16x1,5	ISO 8434-1-L	85	3,35	77	3,03	27	1,06	151,5	5,96	24	0,94	24	0,94	10,2	0,40	26	1,02		
	10	see 2FFN38 series																					
	12,5	*2FFI12-7/1815 F	*2FFI12-7/1815 M	M 18x1,5	ISO 8434-1-L	95,9	3,78	100,2	3,94	38	1,50	178,6	7,03	34	1,34	32	1,26	12,2	0,48	26	1,02		
		2FFI12-7/2215 F	2FFI12-7/2215 M	M 22x1,5	ISO 8434-1-L	95,9	3,78	100,2	3,94	38	1,50	178,6	7,03	34	1,34	32	1,26	15,2	0,60	26	1,02		
	16	*2FFI58-7/2615 F	see FFI-3FFI series	M 26x1,5	ISO 8434-1-L	107	4,21			42	1,65			38	1,50			18,2	0,72	30	1,18		
19	*2FFI34-7/2615 F	see FFI-3FFI series	M 26x1,5	ISO 8434-1-L	116	4,57			48	1,89			42	1,65			18,2	0,72	30	1,18			
	*2FFI34-7/302 F	see FFI-3FFI series	M 30x2	ISO 8434-1-L	116	4,57			48	1,89			42	1,65			22,2	0,87	32	1,26			
25	*2FFI1-7/302 F	see FFI-3FFI series	M 30x2	ISO 8434-1-L	119	4,69			55	2,17			50	1,97			22,2	0,87	30	1,26			
	6,3	*2FFI14-8/1415 F	*2FFI14-8/1415 M	M 14x1,5	ISO 8434-1-S	85	3,35	77	3,03	27	1,06	151,5	5,96	24	0,94	24	0,94	8,2	0,24	26	1,02		
		*2FFI14-8/1615 F	*2FFI14-8/1615 M	M 16x1,5	ISO 8434-1-S	85	3,35	77	3,03	27	1,06	151,5	5,96	24	0,94	24	0,94	8,2	0,32	26	1,02		
	10	see 2FFN38 series																					
	12,5	*2FFI12-8/2415 F	*2FFI12-8/2415 M	M 24x1,5	ISO 8434-1-S	95,9	3,78	100,2	3,94	38	1,50	178,6	7,03	34	1,34	32	1,26	16,2	0,64	30	1,18		
		*2FFI58-8/2415 F	see FFI-3FFI series	M 24x1,5	ISO 8434-1-S	107	4,21			42	1,65			38	1,50			16,2	0,64	30	1,18		
	16	*2FFI34-8/302 F	see FFI-3FFI series	M 30x2	ISO 8434-1-S	116	4,57			48	1,89			42	1,65			20,2	0,80	34	1,34		
25	*2FFI1-8/362 F	see FFI-3FFI series	M 36x2	ISO 8434-1-S	119	4,69			55	2,17			50	1,97			25,2	0,99	37	1,47			
	6,3	*2FFI14-11/38S F	*2FFI14-11/38S M	11/16" UN	ISO 8434-3	76	2,99	67	2,64	27	1,06	132,5	5,22	24	0,94	24	0,94						
		10	see 2FFN38 series																				
	12,5	2FFI12-11/12S F	2FFI12-11/12S M	13/16" UN	ISO 8434-3	82,7	3,26	87	3,43	38	1,50	152,2	5,99	32	1,26	32	1,26						
		*2FFI12-11/58S F	2FFI12-11/58S M	1" UNS	ISO 8434-3	85,4	3,36	89,7	3,53	38	1,50	157,6	6,20	32	1,26	32	1,26						
		2FFI12-11/34S F	2FFI12-11/34S M	1" 3/16 UN	ISO 8434-3	86,9	3,42	91,2	3,59	38	1,50	160,6	6,32	32	1,26	32	1,26						
	16	2FFI58-11/58S F	see FFI-3FFI series	1" UNS	ISO 8434-3	98	3,86			42	1,65			38	1,50								
19	*2FFI34-11/34S F	see FFI-3FFI series	1" 3/16 UN	ISO 8434-3	99	3,90			48	1,89			42	1,65									
	*2FFI34-11/1S F	see FFI-3FFI series	1" 7/16 UN	ISO 8434-3	99	3,90			48	1,89			42	1,65									
25	*2FFI1-11/1S F	see FFI-3FFI series	1" 7/16 UN	ISO 8434-3	113	4,45			55	2,17			50	1,97									

♀ ISO size For 10 size see 2FFN38 at page 7 GAS = BSP *On request

Follows page 15

Series **2F**



❖	Female		Male		Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
	mm	inc.	mm	inc.			mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm
	6,3	2FFI14-12/38S F	*2FFI14-12/38S M		11/16" UN	ISO 8434-3	99	3,90	90	3,54	27	1,06	178,5	7,03	24	0,94	24	0,94			34	1,34	
	10	see 2FFN38 series																					
	12,5	2FFI12-12/12S F	2FFI12-12/12S M		13/16" UN	ISO 8434-3	108,4	4,27	112,7	4,44	38	1,50	203,6	8,02	32	1,26	32	1,26			36,5	1,44	
		2FFI12-12/58S F	2FFI12-12/58S M		1" UNS	ISO 8434-3	108,4	4,27	112,7	4,44	38	1,50	203,6	8,02	32	1,26	32	1,26			40,5	1,59	
		2FFI12-12/34S F	2FFI12-12/34S M		1" 3/16 UN	ISO 8434-3	109,4	4,31	113,7	4,48	38	1,50	205,6	8,09	32	1,26	32	1,26			41,5	1,63	
	16	*2FFI58-12/58S F	see FFI-3FFI series		1" UNS	ISO 8434-3	120	4,72			42	1,65			38	1,50					40,5	1,59	
	*2FFI58-12/1S F			1 7/16" UN	ISO 8434-3	120	4,72			42	1,65			38	1,50					42	1,65		
19	2FFI34-12/34S F	see FFI-3FFI series		1" 3/16 UN	ISO 8434-3	129,3	5,09			48	1,89			42	1,65					41,5	1,63		
	2FFI34-12/1S F			1" 7/16 UN	ISO 8434-3	130	5,12			48	1,89			42	1,65					42	1,65		
25	2FFI1-12/1S F	see FFI-3FFI series		1" 7/16 UN	ISO 8434-3	138	5,43			55	2,17			50	1,97					42	1,65		
	6,3	*2FFI14-13/38S F	*2FFI14-13/38S M		9/16" UNF	ISO 8434-2	76	2,99	68	2,68	27	1,06	133,5	5,26	24	0,94	24	0,94					
	10	see 2FFN38 series																					
	12,5	2FFI12-13/12S F	2FFI12-13/12S M		3/4" UNF	ISO 8434-2	87	3,43	91	3,58	38	1,50	160,5	6,32	32	1,26	32	1,26					
		*2FFI12-13/58S F	*2FFI12-13/58S M		7/8" UNF	ISO 8434-2	87	3,43	91	3,58	38	1,50	160,5	6,32	32	1,26	32	1,26					
		*2FFI12-13/34S F	*2FFI12-13/34S M		1" 1/16 UN	ISO 8434-2	87	3,43	91	3,58	38	1,50	160,5	6,32	32	1,26	32	1,26					
	16	*2FFI58-13/58S F	see FFI-3FFI series		7/8" UNF	ISO 8434-2	98	3,86			42	1,65			38	1,50							
19	2FFI34-13/34S F	see FFI-3FFI series		1" 1/16 UN	ISO 8434-2	118,8	4,40			48	1,89			42	1,65								
25	*2FFI1-13/1S F	see FFI-3FFI series		1" 5/16 UN	ISO 8434-2	117	4,61			50	1,97			50	1,97								
	6,3	*2FFI14-14/38S F	*2FFI14-14/38S M		9/16" UNF	ISO 8434-2	93	3,66	85	3,35	27	1,06	167,5	6,59	24	0,94	24	0,94			32,5	1,28	
	10	see 2FFN38 series																					
	12,5	2FFI12-14/12S F	2FFI12-14/12S M		3/4" UNF	ISO 8434-2	109,9	4,33	114,3	4,50	38	1,50	206,7	8,14	34	1,34	34	1,34			36,6	1,44	
		2FFI12-14/58S F	2FFI12-14/58S M		7/8" UNF	ISO 8434-2	109,9	4,33	114,3	4,50	38	1,50	206,7	8,14	34	1,34	34	1,34			40,1	1,58	
		2FFI12-14/34S F	2FFI12-14/34S M		1" 1/16 UN	ISO 8434-2	114,3	4,50	118,7	4,67	38	1,50	215,5	8,48	34	1,34	34	1,34			44,4	1,75	
	16	2FFI58-14/58S F	see FFI-3FFI series		7/8" UNF	ISO 8434-2	120	4,72			42	1,65			38	1,50					40,1	1,58	
	2FFI58-14/34S F			1 1/16" UN	ISO 8434-2	120	4,72			42	1,65			38	1,50					44,4	1,75		
19	2FFI34-14/34S F	see FFI-3FFI series		1" 1/16 UN	ISO 8434-2	134,2	5,28			48	1,89			42	1,65					44,4	1,75		
25	2FFI1-14/1S F	see FFI-3FFI series		1" 5/16 UN	ISO 8434-2	140	5,51			55	2,17			50	1,97					44,4	1,75		
	6,3	*2FFI14-16/14G F	*2FFI14-16/14G M		1/4" BSP	DIN 3863	72,9	2,87	64,6	2,54	27	1,06	127	5,00	24	0,94	24	0,94					
	10	see 2FFN38 series																					
	12,5	2FFI12-16/12G F	2FFI12-16/12G M		1/2" BSP	DIN 3863	83,9	3,30	88,2	3,47	38	1,50	154,6	6,09	32	1,26	32	1,26					
		*2FFI12-16/1815 F	*2FFI12-16/1815 M		M 18x1,5	DIN 3863	83,9	3,30	88,2	3,47	38	1,50	154,6	6,09	32	1,26	32	1,26					
		*2FFI12-16/2015 F	*2FFI12-16/2015 M		M 20x1,5	DIN 3863	83,9	3,30	88,2	3,47	38	1,50	154,6	6,09	32	1,26	32	1,26					
		*2FFI12-16/2215 F	*2FFI12-16/2215 M		M 22x1,5	DIN 3863	83,9	3,30	88,2	3,47	38	1,50	154,6	6,09	32	1,26	32	1,26					
16	*2FFI58-16/2415 F	see FFI-3FFI series		M 24x1,5	DIN 3863	92	3,62			42	1,65			38	1,50								
19	*2FFI34-16/2615 F	see FFI-3FFI series		M 26x1,5	DIN 3863	102	4,02			48	1,89			42	1,65								
25	*2FFI1-16/302 F	see FFI-3FFI series		M 30x2	DIN 3863	104	4,09			55	2,17			50	1,97								

❖ ISO size For 10 size see 2FFN38 at page 7 GAS = BSP *On request

FEATURES

- **Connection system:** pushing the male coupling
 - **Disconnection system:** pulling back the sleeve
 - **Shut-off system:** flat valve (male coupling with single valve)
 - **Connectability:** without pressure
 - **Disconnection under pressure:** not allowed
 - **Interchangeability:** according to ISO 16028 and HTMA standard (except for 1-1/2", 2" and 3" size)
- Male couplings with single valve
 - Compact dimensions
 - Competitive price
 - High flow rate
 - 3/8" size interchangeable with 2FFN38 female couplings



Patent Application Pending

Technical data

(▲)

Size	ISO size	DN Nominal diameter	Rated flow		Force to connect		Max. work. pressure		Minimum burst pressure				Fluid spillage cc max.		
			l/min	GPM	N	lb	*		Connected		Male				
							MPa	PSI	MPa	PSI	MPa	PSI			
1/4"	04	6.3	7	0,27	20	5,3	95	20,9	25	3625	140	20300	170	24650	0,006
3/8"	06	10	9	0,35	68	18	115	25,3	25	3625	140	20300	120	17400	0,008
1/2"	08	12.5	11	0,43	100	26,4	220	48,5	25	3625	140	20300	100	14500	0,01
5/8"	10	16	14	0,55	150	39,7	205	45,1	25	3625	120	17400	140	20300	0,02
3/4"	12	19	16	0,63	160	42,3	190	41,8	25	3625	120	17400	130	18850	0,02
1"	16	25	18	0,71	210	55,5	200	44	25	3625	110	15950	110	15950	0,03
1 1/2"	24	-	30	1,18	500	132,3	345	75,9	25	3625	125	18125	120	14500	0,05
2"	32	-	45	1,77	700	185,2	400	88,1	20	2900	100	14500	80	11600	0,07
3"	48	-	75	2,95	1150	304	400	88,1	12	1740	80	11600	70	10150	0,1

*Safety factor = 1:4 - for static pressure safety factor 1:2

(▲) With 2FFN38 female couplings equivalent size (see page 6), With 2FFI couplings equivalent size (see page 12), or with 2FSI couplings equivalent size (see page 24)

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F)

Materials:

- Female in steel with carbonitrided wear parts.
- Male in high grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

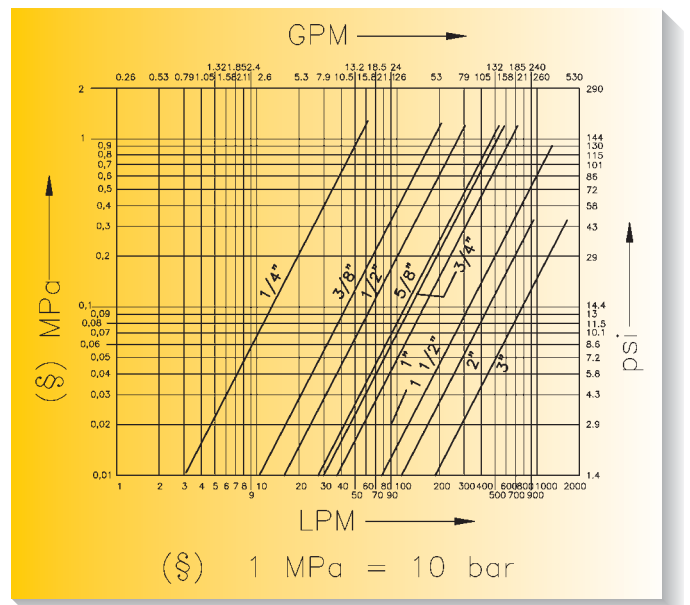
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

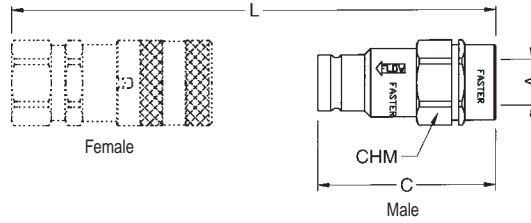
Working temperatures:

with standard seals from -25°C (-13°F) to +100°C (+212°F). For different temperature, the quick-release coupling will be supplied with the appropriate seals.



The descriptions and illustrations in this catalogue are for information only and are not binding.

Series **F_N38 F_I**



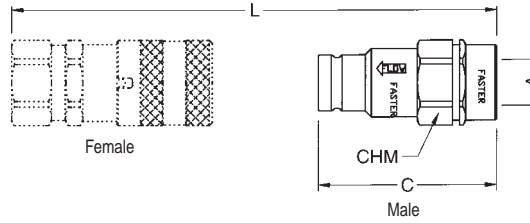
❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P	
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	6,3	see 2FFI series	FFI14 GAS M * FFI14 NPT M	1/4" BSP 1/4" NPTF	DIN 3852-2-X ANSI B1.20.3		48	1,89			96,1	3,78			24	0,94				
	10	see 2FFN38 series	FFN38 GAS M U FFN38-12 GAS M U FFN38 NPT M U FFN38-12 NPT M U	3/8" BSP 1/2" BSP 3/8" NPTF 1/2" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3		62,7	2,47			119,7	4,71			27	1,06				
	12,5	see 2FFI series and 2FSI series	FFI12 GAS M FFI12-34 GAS M FFI12 NPT M FFI12-34 NPT M	1/2" BSP 3/4" BSP 1/2" NPTF 3/4" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3		78,5	3,09			143,4	5,65			32	1,26				
	16	see 2FFI series	* FFI58 GAS M FFI58-34 GAS M * FFI58 NPT M * FFI58-34 N M	5/8" BSP 3/4" BSP 5/8" NPT 3/4" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3		85	3,35			161	6,34			38	1,50				
	19	see 2FFI series and 2FSI series	FFI34 GAS M FFI34-1 GAS M FFI34 NPT M * FFI34-1 NPT M	3/4" BSP 1" BSP 3/4" NPTF 1" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3		99,4	3,91			178,7	7,04			42	1,65				
	25	see 2FFI series and 2FSI series	FFI1 GAS M FFI1 NPT M FFI1-114 G M	1" BSP 1" NPTF 1 1/4" BSP	DIN 3852-2-X ANSI B1.20.3 DIN 3852-2-X		107,5	4,23			186,3	7,33			50	1,97				
	24	see 2FFI series	FFI112 GAS M FFI112 NPT M FFI112-2 GAS M FFI112-2 NPT M	1 1/2" BSP 1 1/2" NPTF 2" BSP 2" NPTF	DIN 3852-2-X ANSI B1.20.3 DIN 3852-2-X ANSI B1.20.3		104	4,09			215	8,46			65	2,56				
	32	see 2FFI series	FFI2 GAS M FFI2 NPT M	2" BSP 2" NPTF	DIN 3852-2-X ANSI B1.20.3		104	4,09			215	8,46			65	2,56				
	48	see 2FFI series	FFI3 GAS M	3" BSP	DIN 3852-2-X		182	7,16			336	13,2			115	4,53				
		6,3	see 2FFI series	FFI14-38 SAE M	9/16" UNF	SAE J 1926-1		49,5	1,95			97,6	3,84			24	0,94			
10		see 2FFN38 series	FFN38-12 SAE M U	3/4" UNF	SAE J 1926-1		66,7	2,63			125,3	4,93			27	1,06				
12,5		see 2FFI series and 2FSI series	FFI12-12 SAE M FFI12-58 SAE M FFI12-34 SAE M	3/4" UNF 7/8" UNF 1" 1/16 UN	SAE J 1926-1 SAE J 1926-1 SAE J 1926-1		78,5	3,09			143,4	5,65			32	1,26				
16		see 2FFI series	* FFI58-58 SAE M FFI58-34 SAE M	7/8" UNF 1" 1/16 UN	SAE J 1926-1 SAE J 1926-1		85	3,35			161	6,34			38	1,50				
19		see 2FFI series and 2FSI series	FFI34-34 SAE M FFI34-1 SAE M	1" 1/16 UN 1" 5/16 UN	SAE J 1926-1 SAE J 1926-1		99,4	3,91			178,7	7,04			42	1,65				
25		see 2FFI series and 2FSI series	FFI1-1 SAE M	1" 5/16 UN	SAE J 1926-1		107,5	4,23			186,3	7,33			50	1,97				
	6,3	see 2FFI series	* FFI14-1/14G M * FFI14-1/14N M	1/4" BSP 1/4" NPTF	DIN 3852-2-B ANSI B1.20.3		52,3	2,06			114,2	4,50			24	0,94				
	10	see 2FFN38 series	* FFN38-1/38G M U * FFN38-1/12G M U * FFN38-1/38N M U * FFN38-1/12N M U FFN38-1/12S M U FFN38-1/38S M U	3/8" BSP 1/2" BSP 3/8" NPTF 1/2" NPTF 3/4" UNF 9/16" UNF	DIN 3852-2-B DIN 3852-2-B ANSI B1.20.3 ANSI B1.20.3 SAE J1926-1 SAE J1926-1		65,2	2,57			130,2	5,13			27	1,06				
	12,5	see 2FFI series and 2FSI series	* FFI12-1/12GAS M * FFI12-1/12NPT M FFI12-1/12S M	1/2" BSP 1/2" NPTF 3/4" UNF	DIN 3852-2-B ANSI B1.20.3 SAE J 1926-3		79	3,11			145,5	5,73			32	1,26				
	16	see 2FFI series	* FFI58-1/58S M	1" UNS	SAE J 1926-3		87	3,43			165	6,50			38	1,50				
	19	see 2FFI series and 2FSI series	* FFI34-1/34S M	1" 1/16 UN	SAE J 1926-3		100	3,94			181	7,13			42	1,65				
	25	see 2FFI series and 2FSI series	* FFI1-1/1S M	1" 5/16 UN	SAE J 1926-3		110	4,33			192	7,56			50	1,97				
	6,3	see 2FFI series	* FFI14-2/1415 M * FFI14-2/1615 M	M 14x1,5 M 16x1,5	ISO 8434-1-L ISO 8434-1-L		52,3	2,06			114,2	4,50			24	0,94	8,2	0,32		
10	see 2FFN38 series	FFN38-2/18M U FFN38-2/22M U	M 18x1,5 M 22x1,5	ISO 8434-1-L ISO 8434-1-L		62,7	2,47			126,7	4,99			27	1,06	12,2	0,48			
12,5	see 2FFI series and 2FSI series	* FFI12-2/1815 M FFI12-2/2215 M	M 18x1,5 M 22x1,5	ISO 8434-1-L ISO 8434-1-L		71,8	2,83			135,2	5,32			32	1,26	12,2	0,48			
16	see 2FFI series	* FFI58-2/2615 M	M 26x1,5	ISO 8434-1-L		87	3,43			165	6,50			38	1,50	18,2	0,72			
19	see 2FFI series and 2FSI series	* FFI34-2/2615 M * FFI34-2/302 M	M 26x1,5 M 30x2	ISO 8434-1-L ISO 8434-1-L		100	3,94			184,8	7,28			42	1,65	18,2	0,72			
25	see 2FFI series and 2FSI series	* FFI1-2/302 M	M 30x2	ISO 8434-1-L		110	4,33			195	7,68			50	1,97	22,2	0,87			

• Base non ISO ❖ ISO size GAS = BSP *On request

Follows page 18

Available items

Series **FN38**



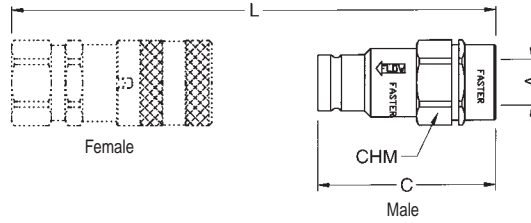
Series	♀	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P	
						mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	6,3	see 2FFI series	*FFI14-3/1415 M *FFI14-3/1615 M	M 14x1,5 M 16x1,5	ISO 8434-1-S ISO 8434-1-S			52,3 52,3	2,06 2,06			114,2 114,2	4,50 4,50			24 24	0,94 0,94	6,2 8,2	0,24 0,32		
	10	see 2FFN38 series	*FFN38-3/2015 M U *FFN38-3/2215 M U	M 20x1,5 M 22x1,5	ISO 8434-1-S ISO 8434-1-S			63,7 65,7	2,51 2,59			123,5 126,7	4,86 4,99			27 27	1,06 1,06	12,2 14,2	0,48 0,56		
	12,5	see 2FFI series	*FFI12-3/2415 M	M 24x1,5	ISO 8434-1-S			79,2	3,12			145,6	5,73			32	1,26	16,2	0,64		
	16	see 2FFI series	*FFI58-3/2415 M	M 24x1,5	ISO 8434-1-S			87	3,43			165	6,50			38	1,50	16,2	0,64		
	19	see 2FFI series	*FFI34-3/302 M *FFI34-3/362 M	M 30x2 M 36x2	ISO 8434-1-S ISO 8434-1-S			100 100	3,94 3,94			184,8 186,8	7,28 7,35			42 42	1,65 1,65	20,2 25,2	0,80 0,99		
	25	see 2FFI series	*FFI1-3/362 M	M 36x2	ISO 8434-1-S			110	4,33			195	7,68			50	1,97	25,2	0,99		
	6,3	see 2FFI series	*FFI14-5/1415 M *FFI14-5/1615 M	M 14x1,5 M 16x1,5	ISO 8434-1-L ISO 8434-1-L			73,7 73,7	2,90 2,90			184,3 184,3	7,26 7,26			24 24	0,94 0,94	8,2 10,2	0,32 0,40	34 35	1,34 1,38
	10	see 2FFN38 series	*FFN38-5/1615 M U *FFN38-5/1815 M U *FFN38-5/2215 M U	M 16x1,5 M 18x1,5 M 22x1,5	ISO 8434-1-L ISO 8434-1-L ISO 8434-1-L			88,2 86,7 86,7	3,47 3,41 3,41			176,2 174,7 174,7	6,94 6,88 6,88			27 27 27	1,06 1,06 1,06	10,2 12,2 15,2	0,40 0,48 0,60	35 36 38	1,38 1,42 1,49
	12,5	see 2FFI series	*FFI12-5/1815 M *FFI12-5/2215 M	M 18x1,5 M 22x1,5	ISO 8434-1-L ISO 8434-1-L			100,2 100,2	3,94 3,94			187,6 187,6	7,39 7,39			32 32	1,26 1,26	12,2 15,2	0,48 0,60	36 38	1,42 1,49
	16	see 2FFI series	*FFI58-5/2615 M	M 26x1,5	ISO 8434-1-L			110	4,33			209	8,23			38	1,50	18,2	0,72	40	1,57
	19	see 2FFI series	*FFI34-5/2615 M *FFI34-5/302 M	M 26x1,5 M 30x2	ISO 8434-1-L ISO 8434-1-L			120 120	4,72 4,72			224 224	8,82 8,82			42 42	1,65 1,65	18,2 22,2	0,72 0,87	40 42	1,57 1,65
	25	see 2FFI series	*FFI1-5/302 M	M 30x2	ISO 8434-1-L			128	5,04			234	9,21			50	1,97	22,2	0,87	42	1,65
	6,3	see 2FFI series	*FFI14-6/1415 M *FFI14-6/1615 M	M 14x1,5 M 16x1,5	ISO 8434-1-S ISO 8434-1-S			73,7 73,7	2,90 2,90			157,2 157,2	6,19 6,19			24 24	0,94 0,94	6,2 8,2	0,24 0,32	36 36	1,42 1,42
	10	see 2FFN38 series	*FFN38-6/2015 M U *FFN38-6/2415 M U	M 20x1,5 M 24x1,5	ISO 8434-1-S ISO 8434-1-S			86,7 86,7	3,41 3,41			174,7 174,7	6,88 6,88			27 27	1,06 1,06	12,2 16,2	0,48 0,64	38 40	1,49 1,57
	12,5	see 2FFI series	*FFI12-6/2415 M	M 24x1,5	ISO 8434-1-S			95,1	3,74			182,5	7,19			32	1,26	16,2	0,64	40	1,57
	16	see 2FFI series	*FFI58-6/2415 M	M 24x1,5	ISO 8434-1-S			110	4,33			209	8,23			38	1,50	16,2	0,64	40	1,57
	19	see 2FFI series	*FFI34-6/302 M	M 30x2	ISO 8434-1-S			120	4,72			224	8,82			42	1,65	20,2	0,80	44	1,73
	25	see 2FFI series	*FFI1-6/362 M	M 36x2	ISO 8434-1-S			128	5,04			234	9,21			50	1,97	25,2	0,99	47	1,85
	6,3	see 2FFI series	*FFI14-7/1415 M *FFI14-7/1615 M	M 14x1,5 M 16x1,5	ISO 8434-1-L ISO 8434-1-L			64,7 64,7	2,55 2,55			139,2 139,2	5,48 5,48			24 24	0,94 0,94	8,2 10,2	0,32 0,40	26 26	1,02 1,02
	10	see 2FFN38 series	*FFN38-7/16 M U FFN38-7/18 M U FFN38-7/22 M U	M 16x1,5 M 18x1,5 M 22x1,5	ISO 8434-1-L ISO 8434-1-L ISO 8434-1-L			79,2 77,7 77,7	3,12 3,06 3,06			153,5 152 152	6,04 5,98 5,98			27 27 27	1,06 1,06 1,06	10,2 12,2 15,2	0,40 0,48 0,60	26 26 26	1,02 1,02 1,02
	12,5	see 2FFI series	*FFI12-7/1815 M *FFI12-7/2215 M	M 18x1,5 M 22x1,5	ISO 8434-1-L ISO 8434-1-L			91,2 91,2	3,59 3,59			169,6 169,6	6,68 6,68			34 34	1,34 1,34	12,2 15,2	0,48 0,60	26 26	1,02 1,02
	16	see 2FFI series	*FFI58-7/2615 M	M 26x1,5	ISO 8434-1-L			101	3,98			192	7,56			38	1,50	18,2	0,72	30	1,18
	19	see 2FFI series	*FFI34-7/2615 M *FFI34-7/302 M	M 26x1,5 M 30x2	ISO 8434-1-L ISO 8434-1-L			111 111	4,37 4,37			206 206	8,11 8,11			42 42	1,65 1,65	18,2 22,2	0,72 0,87	30 32	1,18 1,26
	25	see 2FFI series	*FFI1-7/302 M	M 30x2	ISO 8434-1-L			119	4,69			216	8,50			50	1,97	22,2	0,87	32	1,26
	6,3	see 2FFI series	*FFI14-8/1415 M *FFI14-8/1615 M	M 14x1,5 M 16x1,5	ISO 8434-1-S ISO 8434-1-S			64,7 64,7	2,55 2,55			139,2 139,2	5,48 5,48			24 24	0,94 0,94	6,2 8,2	0,24 0,32	26 26	1,02 1,02
	10	see 2FFN38 series	*FFN38-8/1815 M U *FFN38-8/2015 M U *FFN38-8/2415 M U	M 18x1,5 M 20x1,5 M 24x1,5	ISO 8434-1-S ISO 8434-1-S ISO 8434-1-S			77,7 77,7 77,7	3,06 3,06 3,06			149,5 149,5 149,5	5,89 5,89 5,89			27 27 27	1,06 1,06 1,06	10,2 12,2 16,2	0,40 0,48 0,64	26 26 30	1,02 1,02 1,18
	12,5	see 2FFI series	*FFI12-8/2215 M *FFI12-8/2415 M	M 22x1,5 M 24x1,5	ISO 8434-1-S ISO 8434-1-S			91,2 91,2	3,59 3,59			169,6 169,6	6,68 6,68			34 34	1,34 1,34	14,2 16,2	0,56 0,64	26 30	1,02 1,18
	16	see 2FFI series	*FFI58-8/2415 M	M 24x1,5	ISO 8434-1-S			101	3,98			192	7,56			38	1,50	16,2	0,64	30	1,18
	19	see 2FFI series	*FFI34-8/302 M	M 30x2	ISO 8434-1-S			111	4,37			206	8,11			42	1,65	20,2	0,80	34	1,34
	25	see 2FFI series	*FFI1-8/362 M	M 36x2	ISO 8434-1-S			119	4,69			216	8,50			50	1,97	25,2	0,99	37	1,47

♀ ISO size GAS = BSP *On request

Follows page 19

Available items

Series **FN38FI**



❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	
	6,3	see 2FFI series	*FFI14-11/38S M	11/16" UN	ISO 8434-3			54,7	2,15			120,2	4,73			24	0,94				
	10	see 2FFN38 series	*FFN38-11/38S M U *FFN38-11/12S M U *FFN38-11/58S M U	11/16" UN 13/16" UN 1" UN	ISO 8434-3 ISO 8434-3 ISO 8434-3			65,4 64,5 67,2	2,57 2,54 2,65			122,4 130,4 131	4,82 5,13 5,16			27 27 27	1,06 1,06 1,06				
	12,5	see 2FFI series	*FFI12-11/12S M *FFI12-11/58S M *FFI12-11/34S M	13/16" UN 1" UNS 1" 3/16 UN	ISO 8434-3 ISO 8434-3 ISO 8434-3			78 80,7 82,2	3,07 3,18 3,24			143,2 148,6 151,6	5,64 5,85 5,97			32 32 32	1,26 1,26 1,26				
	16	see 2FFI series	FFI58-11/58S M	1" UNS	ISO 8434-3			97	3,82			179	7,05			38	1,50				
	19	see 2FFI series	*FFI34-11/58S M *FFI34-11/1S M	1" 3/16 UN 1" 7/16 UN	ISO 8434-3 ISO 8434-3			116 116	4,57 4,57			194 194	7,64 7,64			42 42	1,65 1,65				
	25	see 2FFI series	*FFI1-11/1S M	1" 7/16 UN	ISO 8434-3			126	4,96			217	8,54			50	1,97				
	6,3	see 2FFI series	FFI14-12/38S M	11/16" UN	ISO 8434-3			77,7	3,06			166,2	6,54			24	0,94			34	1,34
	10	see 2FFN38 series	*FFN38-12/38S M U *FFN38-12/12S M U	11/16" UN 13/16" UN	ISO 8434-3 ISO 8434-3			86,7 86,2	3,41 3,39			173,3 172,8	6,82 6,80			27 27	1,06 1,06			34 36,5	1,34 1,44
	12,5	see 2FFI series	*FFI12-12/12S M *FFI12-12/58S M *FFI12-12/34S M	13/16" UN 1" UNS 1" 3/16 UN	ISO 8434-3 ISO 8434-3 ISO 8434-3			103,7 103,7 104,7	4,08 4,08 4,12			194,6 194,6 196,6	7,66 7,66 7,74			32 32 32	1,26 1,26 1,26			36,5 40,5 41,5	1,44 1,59 1,63
	16	see 2FFI series	*FFI58-12/58S M	1" UNS	ISO 8434-3			106	4,17			210	8,27			38	1,50			40,5	1,59
	19	see 2FFI series	FFI34-12/34S M FFI34-12/1S M	1" 3/16 UN 1" 7/16 UN	ISO 8434-3 ISO 8434-3			125,1 124,8	4,93 4,91			233,4 232,8	9,19 9,17			42 42	1,65 1,65			41,5 42	1,63 1,65
	25	see 2FFI series	FFI1-12/1S M	1" 7/16 UN	ISO 8434-3			135	5,31			251	9,88			50	1,97			42	1,65
	6,3	see 2FFI series	*FFI14-13/38S M	9/16" UNF	ISO 8434-2			55,7	2,19			121,2	4,77			24	0,94				
	10	see 2FFN38 series	*FFN38-13/38S M U *FFN38-13/12S M U *FFN38-13/58S M U	9/16" UNF 3/4" UNF 7/8" UNF	ISO 8434-2 ISO 8434-2 ISO 8434-2			65,9 68,4 71	2,59 2,69 2,80			133,4 138,4 143,6	5,25 5,45 5,65			27 27 27	1,06 1,06 1,06				
	12,5	see 2FFI series	*FFI12-13/12S M *FFI12-13/58S M *FFI12-13/34S M	3/4" UNF 7/8" UNF 1 1/16" UN	ISO 8434-2 ISO 8434-2 ISO 8434-2			82 82 82	3,23 3,23 3,23			151,5 151,5 151,5	5,96 5,96 5,96			32 32 32	1,26 1,26 1,26				
	16	see 2FFI series	*FFI58-13/58S M	7/8" UNF	ISO 8434-2			84	3,31			166	6,54			38	1,50				
	19	see 2FFI series	FFI34-13/34S M	1 1/16" UN	ISO 8434-2			108	4,25			200	7,87			42	1,65				
	25	see 2FFI series	*FFI1-13/1S M	1" 5/16 UN	ISO 8434-2			118	4,65			213	8,39			50	1,97				
	6,3	see 2FFI series	*FFI14-14/38S M	9/16" UNF	ISO 8434-2			72,7	2,86			155,2	6,11			24	0,94			32,5	1,28
	10	see 2FFN38 series	*FFN38-14/14S M U *FFN38-14/12S M U *FFN38-14/58S M U	7/16" UNF 3/4" UNF 7/8" UNF	ISO 8434-2 ISO 8434-2 ISO 8434-2			82,7 88,2 91,7	3,26 3,47 3,61			161,5 177,8 180	6,36 7,00 7,09			27 27 27	1,06 1,06 1,06			30,5 36,6 40,1	1,20 1,44 1,58
	12,5	see 2FFI series	*FFI12-14/12S M *FFI12-14/58S M *FFI12-14/34S M	3/4" UNF 7/8" UNF 1 1/16" UN	ISO 8434-2 ISO 8434-2 ISO 8434-2			105,3 105,3 109,7	4,15 4,15 4,32			197,7 197,7 206,5	7,78 7,78 8,13			34 34 34	1,34 1,34 1,34			36,6 40,1 44,4	1,44 1,58 1,75
	16	see 2FFI series	FFI58-14/58S M FFI58-14/34S M	7/8" UNF 1 1/16" UN	ISO 8434-2 ISO 8434-2			105 105	4,13 4,13			209 209	8,23 8,23			38 38	1,50 1,50			40,1 44,4	1,58 1,75
	19	see 2FFI series	FFI34-14/34S M	1" 1/16 UN	ISO 8434-2			135	5,31			248	9,76			42	1,65			44,4	1,75
	25	see 2FFI series	*FFI1-14/1S M	1" 5/16 UN	ISO 8434-2			145	5,71			263	10,35			50	1,97			44,4	1,75
	6,3	see 2FFI series	*FFI14-16/14G M	1/4" BSP	DIN 3863			52,3	2,06			114,7	4,52			24	0,94				
	10	see 2FFN38 series	*FFN38-16/38G M U	3/8" BSP	DIN 3863			65,2	2,57			130,3	5,13			27	1,06				
			*FFN38-16/12G M U	1/2" BSP	DIN 3863			63,7	2,51			123,5	4,86			27	1,06				
			*FFN38-16/1615 M U	M 16x1,5	DIN 3863			63,2	2,49			123,2	4,85			27	1,06				
			*FFN38-16/1815 M U	M 18x1,5	DIN 3863			63,7	2,51			125,7	4,95			27	1,06				
			*FFN38-16/2015 M U *FFN38-16/2215 M U	M 20x1,5 M 22x1,5	DIN 3863 DIN 3863			65,7 66,7	2,59 2,63			130,7 132,7	5,15 5,22			27 27	1,06 1,06				
	12,5	see 2FFI series	FFI12-16/12G M	1/2" BSP	DIN 3863			79,2	3,12			145,6	5,73			32	1,26				
			*FFI12-16/1815 M	M 18x1,5	DIN 3863			79,2	3,12			145,6	5,73			32	1,26				
*FFI12-16/2015 M			M 20x1,5	DIN 3863			79,2	3,12			145,6	5,73			32	1,26					
*FFI12-16/2215 M			M 22x1,5	DIN 3863			79,2	3,12			145,6	5,73			32	1,26					
16	see 2FFI series	*FFI58-16/2415 M	M 24x1,5	DIN 3863			87	3,43			163	6,42			38	1,50					
19	see 2FFI series	*FFI34-16/2615 M	M 26x1,5	DIN 3863			100	3,94			181	7,13			42	1,65					
25	see 2FFI series	*FFI1-16/302 M	M 30x2	DIN 3863			110	4,33			192	7,56			50	1,97					

❖ ISO size GAS = BSP *On request

► **FEATURES**

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve (male coupling with single valve)
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to ISO 16028 and HTMA standard
- Made of AISI 316 stainless steel
- Balls-bearing latching system
- Suitable for aggressive environments and corrosive fluids



Patent Application Pending

► **Technical data**

Size	ISO size	ISO size	DN Nominal diameter		Rated flow		Force to connect		Max. work. pressure		Minimum burst pressure						Fluid spillage cc max.		
			mm	inc.	l/min	GPM	N	lb	*		Connected		Male		Female				
									MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI			
1/4"	04	6.3	7	0,28	20	5,3	95	20,9	25	3625	120	17400	100	14500	100	14500	100	14500	0,006
3/8"	06	10	9	0,35	68	18	115	25,3	25	3625	100	14500	100	14500	100	14500	100	14500	0,008
1/2"	08	12.5	11	0,43	100	26,4	220	48,5	25	3625	100	14500	100	14500	100	14500	100	14500	0,01
5/8"	10	16	14	0,55	150	39,7	205	45,1	25	3625	100	14500	100	14500	100	14500	100	14500	0,02
3/4"	12	19	16	0,63	160	42,3	190	41,8	25	3625	100	14500	100	14500	100	14500	100	14500	0,02
1"	16	25	18	0,71	210	55,5	200	44	25	3625	100	14500	100	14500	100	14500	100	14500	0,03

*Safety factor = 1:4 - for static pressure safety factor 1:2

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil at 40°C (104°F) temperature.

Materials:

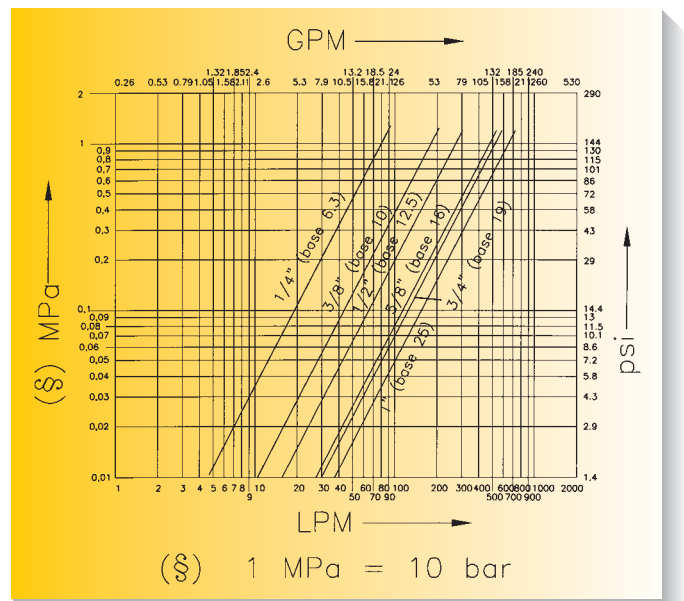
- Female in AISI 316 stainless steel.
- Male in AISI 316 stainless steel.
- Valves in AISI 316 stainless steel.
- Springs in AISI 304 stainless steel.
- Balls in AISI 316 stainless steel.

Seals:

Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM, Kalrez, other.

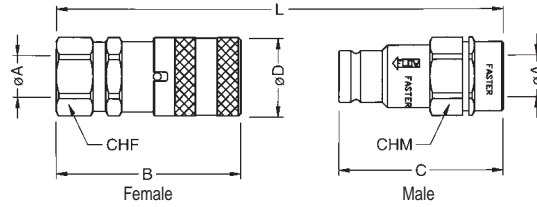
Working temperatures: from -25°C (-13°F) to +100°C (+212°F).

For different temperature, the quick-release coupling will be supplied with the appropriate seals.



Available items

Series **2F** STAINLESS STEEL



❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	
	6,3	2FFI14 GAS F2 2FFI14 NPT F2	FFI14 GAS M2 FFI14 NPT M2	1/4" BSP 1/4" NPTF	DIN 3852-2-X ANSI B1.20.3	58,6 58,6	2,31 2,31	48 48	1,89 1,89	27 27	1,06 1,06	96,1 96,1	3,78 3,78	24 24	0,94 0,94	24 24	0,94 0,94				
	10	2FFN38 GAS F2 2FFN38-12 GAS F2	FFN38 GAS M2 FFN38-12 GAS M2	3/8" BSP 1/2" BSP	DIN 3852-2-X DIN 3852-2-X	73 74,6	2,87 2,94	62,7 66,7	2,47 2,63	30 30	1,18 1,18	119,7 125,3	4,71 4,93	27 27	1,06 1,06	27 27	1,06 1,06				
		2FFN38 NPT F2 *2FFN38-12 NPT F2	FFN38 NPT M2 U *FFN38-12 NPT M2	3/8" NPTF 1/2" NPTF	ANSI B1.20.3 ANSI B1.20.3	73 75,6	2,87 2,98	62,7 66,7	2,47 2,63	30 30	1,18 1,18	119,7 126,3	4,71 4,97	27 27	1,06 1,06	27 27	1,06 1,06				
		2FFI12 GAS F2 2FFI12-34 GAS F2 2FFI12 NPT F2 *2FFI12-34 NPT F2	FFI12 GAS M2 FFI12-34 GAS M2 FFI12 NPT M2 *FFI12-34 NPT M2	1/2" BSP 3/4" BSP 1/2" NPTF 3/4" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3	82,4 86,4 82,4 86,4	3,24 3,40 3,24 3,40	78,5 83,5 78,5 83,5	3,09 3,29 3,09 3,29	38 38 38 38	1,50 1,50 1,50 1,50	143,4 152,4 143,4 152,4	5,65 6,00 5,65 6,00	32 32 32 32	1,26 1,26 1,26 1,26	32 32 32 32	1,26 1,34 1,26 1,34				
	16	*2FFI58 GAS F2 *2FFI58-34G F2 *2FFI58 NPT F2 *2FFI58-34N F2	*FFI58 GAS M2 *FFI58-34G M2 *FFI58 NPT M2 *FFI58-34N M2	5/8" BSP 3/4" BSP 5/8" NPTF 3/4" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3	92 92 92 92	3,62 3,62 3,62 3,62	85 85 85 85	3,35 3,35 3,35 3,35	42 42 42 42	1,65 1,65 1,65 1,65	161 161 161 161	6,34 6,34 6,34 6,34	38 38 38 38	1,50 1,50 1,50 1,50	38 38 38 38	1,50 1,50 1,50 1,50				
		19	2FFI34 GAS F2 *2FFI34-1GAS F2 2FFI34 NPT F2 *2FFI34-1N F2	FFI34 GAS M2 FFI34-1GAS M2 FFI34 NPT M2 *FFI34-1N M2	3/4" BSP 1" BSP 3/4" NPTF 1" NPTF	DIN 3852-2-X DIN 3852-2-X ANSI B1.20.3 ANSI B1.20.3	100,3 100,3 100,3 100,3	3,95 3,95 3,95 3,95	99,4 99,4 99,4 99,4	3,91 3,91 3,91 3,91	48 48 48 48	1,89 1,89 1,89 1,89	178,7 178,7 178,7 178,7	7,04 7,04 7,04 7,04	41 41 41 41	1,61 1,61 1,61 1,61	42 42 42 42	1,65 1,65 1,65 1,65			
25			2FFI1 GAS F2 2FFI1 NPT F2	FFI1 GAS M2 FFI1 NPT M2	1" BSP 1" NPTF	DIN 3852-2-X ANSI B1.20.3	99,8 99,8	3,93 3,93	107,5 107,5	4,23 4,23	55 55	2,17 2,17	186,3 186,3	7,33 7,33	50 50	1,97 1,97	50 50	1,97 1,97			

❖ ISO size GAS = BSP *On request

► FEATURES

- **Connection system:** pushing the male coupling
 - **Disconnection system:** pulling back the sleeve
 - **Shut-off system:** flat valve (male coupling with single valve)
 - **Connectability:** without pressure
 - **Disconnection under pressure:** not allowed
 - **Interchangeability:** according to ISO 16028 and HTMA standard
- Made of brass
 - Balls-bearing latching system



Patent Application Pending

► Technical data

Size	ISO size	DN Nominal diameter	Rated flow		Force to connect		Max. work. pressure		Minimum burst pressure						Fluid spillage cc max.		
							*		Connected		Male		Female				
			mm	inc.	l/min	GPM	N	lb	MPa	PSI	MPa	PSI	MPa	PSI		MPa	PSI
1/4"	04	6.3	7	0,28	20	5,3	95	20,9	12	1740	60	8700	50	7250	50	7250	0,006
3/8"	06	10	9	0,35	68	18	115	25,3	12	1740	50	7250	50	7250	50	7250	0,008
1/2"	08	12.5	11	0,43	100	26,4	220	48,5	12	1740	50	7250	50	7250	50	7250	0,01
5/8"	10	16	14	0,55	150	39,7	205	45,1	12	1740	50	7250	50	7250	50	7250	0,02
3/4"	12	19	16	0,63	160	42,3	190	41,8	12	1740	50	7250	50	7250	50	7250	0,02
1"	16	25	18	0,71	210	55,5	200	44	12	1740	50	7250	50	7250	50	7250	0,03

*Safety factor = 1:4 - for static pressure safety factor 1:2

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil at 40°C (104°F) temperature.

Materials:

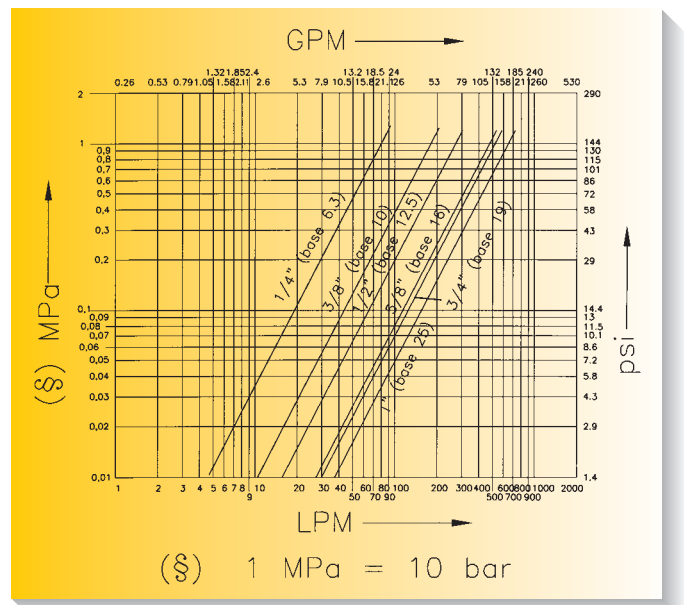
- Female in brass.
- Male in brass.
- Valves in brass.
- Springs in AISI 304 stainless steel.
- Balls in AISI 316 stainless steel.

Seals:

Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM, Kalrez, other.

Working temperatures: from -25°C (-13°F) to +100°C (+212°F).

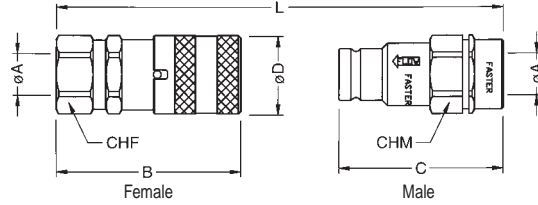
For different temperature, the quick-release coupling will be supplied with the appropriate seals.



The descriptions and illustrations in this catalogue are for information only and not binding.

Available items

Series **2F** BRASS



❖	Female		Male		Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
							mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm
	6,3	*2FFI14 GAS F5	*FFI14 GAS M5	1/4" BSP	DIN 3852-2-X	58,6	2,31	48	1,89	27	1,06	96,1	3,78	24	0,94	24	0,94						
		*2FFI14 NPT F5	*FFI14 NPT M5	1/4" NPTF	ANSI B1.20.3	58,6	2,31	48	1,89	27	1,06	96,1	3,78	24	0,94	24	0,94						
	10	*2FFN38 GAS F5	*FFN38 GAS M5	3/8" BSP	DIN 3852-2-X	73	2,87	62,7	2,47	30	1,18	119,7	4,71	27	1,06	27	1,06						
		*2FFN38-12 GAS F5	*FFN38-12 GAS M5	1/2" BSP	DIN 3852-2-X	74,6	2,94	66,7	2,63	30	1,18	125,3	4,93	27	1,06	27	1,06						
		*2FFN38 NPT F5	*FFN38 NPT M5 U	3/8" NPTF	ANSI B1.20.3	73	2,87	62,7	2,47	30	1,18	119,7	4,71	27	1,06	27	1,06						
		*2FFN38-12 NPT F5	*FFN38-12 NPT M5 U	1/2" NPTF	ANSI B1.20.3	75,6	2,98	66,7	2,63	30	1,18	126,3	4,97	27	1,06	27	1,06						
12,5	*2FFI12 GAS F5	*FFI12 GAS M5	1/2" BSP	DIN 3852-2-X	82,4	3,24	78,5	3,09	38	1,50	143,4	5,65	32	1,26	32	1,26							
	*2FFI12-34 GAS F5	*FFI12-34 GAS M5	3/4" BSP	DIN 3852-2-X	86,4	3,40	83,5	3,29	38	1,50	152,4	6,00	32	1,26	32	1,34							
	*2FFI12 NPT F5	*FFI12 NPT M5	1/2" NPTF	ANSI B1.20.3	82,4	3,24	78,5	3,09	38	1,50	143,4	5,65	32	1,26	32	1,26							
	*2FFI12-34 NPT F5	*FFI12-34 NPT M5	3/4" NPTF	ANSI B1.20.3	86,4	3,40	83,5	3,29	38	1,50	152,4	6,00	32	1,26	32	1,34							
16	*2FFI58 GAS F5	*FFI58 GAS M5	5/8" BSP	DIN 3852-2-X	92	3,62	85	3,35	42	1,65	161	6,34	38	1,50	38	1,50							
	*2FFI58-34G F5	*FFI58-34G M5	3/4" BSP	DIN 3852-2-X	92	3,62	85	3,35	42	1,65	161	6,34	38	1,50	38	1,50							
	*2FFI58 NPT F5	*FFI58 NPT M5	5/8" NPTF	ANSI B1.20.3	92	3,62	85	3,35	42	1,65	161	6,34	38	1,50	38	1,50							
	*2FFI58-34N F5	*FFI58-34N M5	3/4" NPTF	ANSI B1.20.3	92	3,62	85	3,35	42	1,65	161	6,34	38	1,50	38	1,50							
19	*2FFI34 GAS F5	*FFI34 GAS M5	3/4" BSP	DIN 3852-2-X	100,3	3,95	99,4	3,91	48	1,89	178,7	7,04	41	1,61	42	1,65							
	*2FFI34-1GAS F5	*FFI34-1GAS M5	1" BSP	DIN 3852-2-X	100,3	3,95	99,4	3,91	48	1,89	178,7	7,04	41	1,61	42	1,65							
	*2FFI34 NPT F5	*FFI34 NPT M5	3/4" NPTF	ANSI B1.20.3	100,3	3,95	99,4	3,91	48	1,89	178,7	7,04	41	1,61	42	1,65							
	*2FFI34-1N F5	*FFI34-1N M5	1" NPTF	ANSI B1.20.3	100,3	3,95	99,4	3,91	48	1,89	178,7	7,04	41	1,61	42	1,65							
25	*2FFI1 GAS F5	*FFI1 GAS M5	1" BSP	DIN 3852-2-X	99,8	3,93	107,5	4,23	55	2,17	186,3	7,33	50	1,97	50	1,97							
	*2FFI1 NPT F5	*FFI1 NPT M5	1" NPTF	ANSI B1.20.3	99,8	3,93	107,5	4,23	55	2,17	186,3	7,33	50	1,97	50	1,97							

❖ ISO size GAS = BSP *On request

The descriptions and illustrations in this catalogue are for information only and not binding.

► **FEATURES**

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to ISO 16028 standard (except for 1-1/2", 2" and 3" size)
- Quick-release couplings female part
- Female/male latching by steel sectors instead of latching balls
- Unique shape of latching sectors allows the best load sharing
- Purposely designed for pulsing pressure applications
- This solution prevents brinelling effect on connected male coupling



NEW

Patent Application Pending

► **Technical data**

(▲)

Size	ISO size	DN Nominal diameter	Rated flow		Force to connect		Max. work. pressure		Minimum burst pressure				Fluid spillage cc max.		
							*		Connected		Female				
			mm	inc.	l/min	GPM	N	lb	MPa	PSI	MPa	PSI		MPa	PSI
1/2"	08	12.5	11	0,43	100	26,4	250	55	25	3625	140	20300	100	14500	0,01
3/4"	12	19	16	0,63	160	42,3	220	48,5	25	3625	120	17400	100	14500	0,02
1"	16	25	18	0,71	210	55,5	230	50,7	25	3625	110	15950	100	14500	0,03
1-1/2"	24	-	30	1,18	500	132,3	345	75,9	25	3625	125	18125	100	14500	0,05
2"	32	-	45	1,77	700	185,2	400	88,1	20	2900	100	14500	80	11600	0,07
3"	48	-	75	2,95	1150	304	400	88,1	12	1740	80	11600	50	7250	0,1

*Safety factor = 1:4 - for static pressure safety factor 1:2
 (▲) With FFI male couplings equivalent size (see page 16)

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- Latching sectors in steel.

Seals:

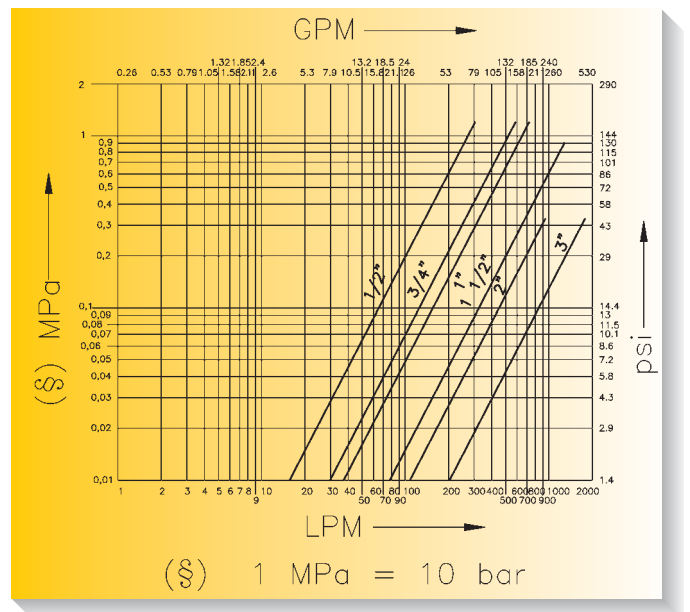
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

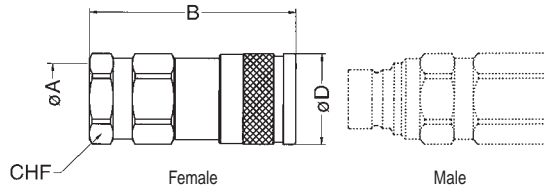
Working temperatures: with standard seals

from -25°C (-13°F) to +100°C (+212°F). For different temperature the quick-release coupling will be supplied with the appropriate seals.



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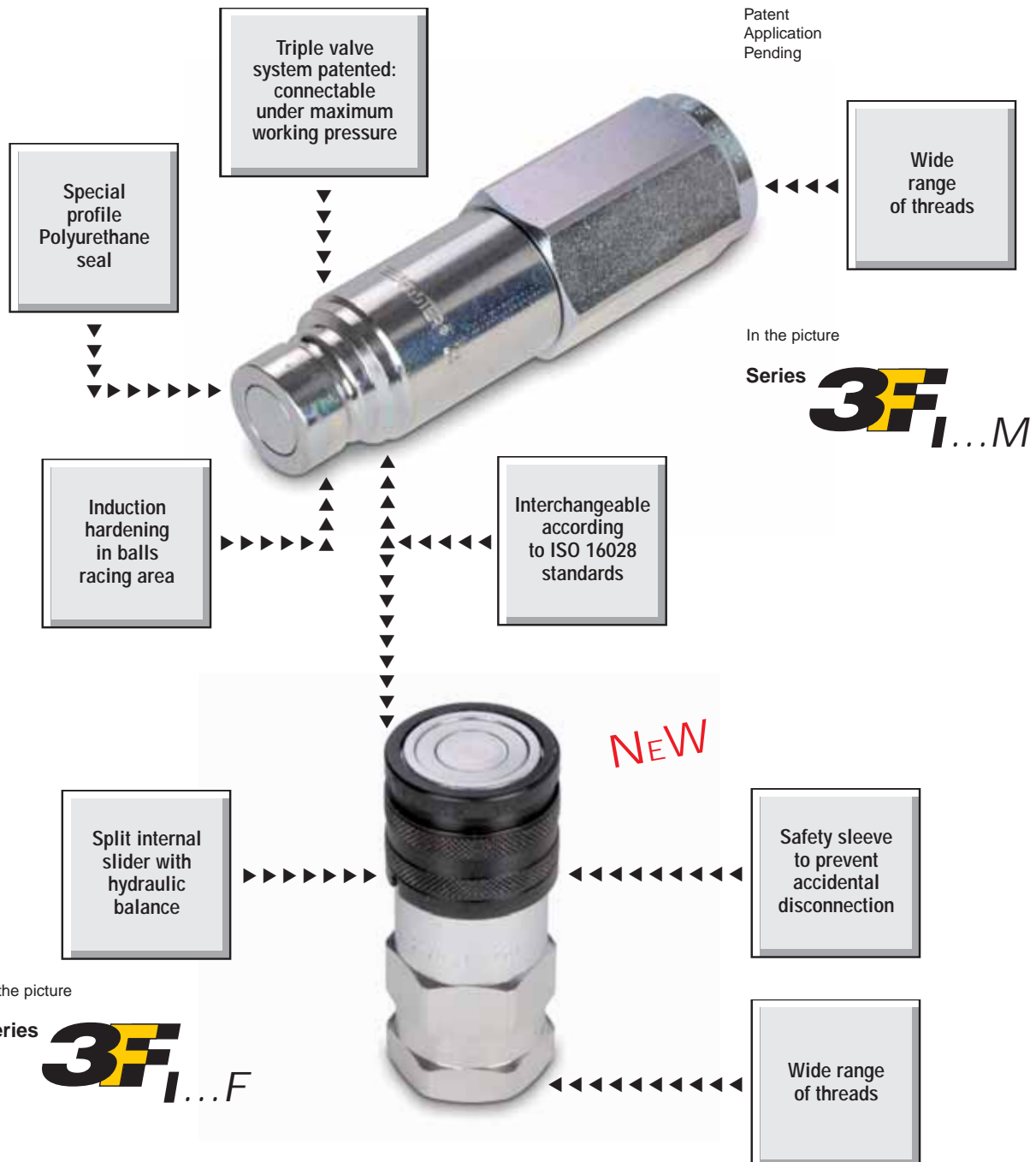
Series **25₁**



❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P			
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.		
	12.5	2FSI12 GAS F	see FFI-2FFI-3FFI series	1/2" BSP	DIN 3852-2-X	82,4	3,24			38	1,50			32	1,26							
		*2FSI12-34 GAS F		3/4" BSP	DIN 3852-2-X	86,4	3,40			38	1,50			32	1,26							
		*2FSI12 NPT F		1/2" NPTF	ANSI B1.20.3	82,4	3,24			38	1,50			32	1,26							
		*2FSI12-34 NPT F		3/4" NPTF	ANSI B1.20.3	86,4	3,40			38	1,50			32	1,26							
	19	2FSI34 GAS F	see FFI-2FFI-3FFI series	3/4" BSP	DIN 3852-2-X	100,3	3,95			48	1,89			42	1,65							
		*2FSI34-1 GAS F		1" BSP	DIN 3852-2-X	100,3	3,95			48	1,89			42	1,65							
*2FSI34 NPT F		3/4" NPTF		ANSI B1.20.3	100,3	3,95			48	1,89			42	1,65								
*2FSI34-1 NPT F		1" NPTF		ANSI B1.20.3	100,3	3,95			48	1,89			42	1,65								
	25	2FSI1 GAS F	see FFI-2FFI-3FFI series	1" BSP	DIN 3852-2-X	99,8	3,93			55	2,17			50	1,97							
		*2FSI1 NPT F		1" NPTF	ANSI B1.20.3	99,8	3,93			55	2,17			50	1,97							
	24	2FSI112 GAS F	see FFI series	1-1/2" BSP	DIN 3852-2-X	134	5,28			80	3,15			70	2,76							
		2FSI112 NPT F		1-1/2" NPTF	ANSI B1.20.3	134	5,28			80	3,15			70	2,76							
	32	*2FSI2 GAS F	see FFI series	2" BSP	DIN 3852-2-X	165	6,50			100	3,94			80	3,15							
		*2FSI2 NPT F		2" NPTF	ANSI B1.20.3	165	6,50			100	3,94			80	3,15							
48	*2FSI3 GAS F	see FFI series	3" BSP	DIN 3852-2-X	210	8,27			156	6,14			115	4,53								
	12.5	2FSI12-12SAE F	see FFI-2FFI-3FFI series	3/4" UNF	SAE J 1926-1	82,4	3,24			38	1,50			32	1,26							
		2FSI12-58SAE F		7/8" UNF	SAE J 1926-1	84,4	3,32			38	1,50			34	1,34							
		2FSI12-34SAE F		1" 1/16 UN	SAE J 1926-1	86,9	3,42			38	1,50			34	1,34							
19	2FSI34-34SAE F	see FFI-2FFI-3FFI series	1" 1/16 UN	SAE J 1926-1	100,3	3,95			48	1,89			42	1,65								
	*2FSI34-1SAE F		1" 5/16 UN	SAE J 1926-1	101,5	4,00			48	1,89			42	1,65								
25	2FSI1-1SAE F	see FFI-2FFI-3FFI series	1" 5/16 UN	SAE J 1926-1	99,8	3,93			55	2,17			50	1,97								

* Size not ISO ❖ ISO size GAS = BSP *On request

3FFI series flat-face couplings connectable under pressure



▶ THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLING

- 1) Male coupling 3FFI...M series, connectable up to maximum working pressure with standard female couplings 2FFI or 2FSI series free to drain.
- 2) Female coupling 3FFI...F series, connectable up to maximum working pressure with standard male couplings FFI, 2FFI series or 2FSI series free to drain.
- 3) Interchangeable according to ISO 16028.
- 4) Wide range of threads.

► **FEATURES**

- **Connection system:** pushing the male coupling
 - **Disconnection system:** pulling back the sleeve
 - **Shut-off system:** flat valve (coupling with triple valve)
 - **Connectability:** male part under pressure, female part free to drain
 - **Disconnection under pressure:** not allowed
 - **Interchangeability:** according to ISO 16028 and HTMA standards
- Male couplings with triple valve patented
 - Connection up to maximum working pressure is achievable with minimal effort with standard female couplings 2FFI



Patent Application Pending

► **Technical data**

(▲)

Size	ISO size	DN Nominal diameter	Rated flow				Force to connect 0 MPa		Force to connect 25 MPa (male)		Max. work. pressure		Minimum burst pressure				Fluid spillage cc max.
			♦		l/min	GPM	N	lb	N	lb	MPa	PSI	Connected		Male		
			mm	inc.									MPa	PSI	MPa	PSI	
3/8"	06	10	9	0,35	50	13	270	59,5	400	88	25	3625	100	14500	120	17400	0,008
1/2"	08	12.5	11	0,43	65	17,2	285	62,8	550	121	25	3625	100	14500	100	14500	0,01
5/8"	10	16	14	0,55	76	20,1	280	62	500	110	25	3625	120	17400	100	14500	0,02
3/4"	12	19	16	0,63	150	39,7	280	61,7	450	99	25	3625	120	17400	105	15225	0,02
1"	16	25	18	0,71	170	45	315	69,4	700	154	25	3625	110	15950	110	15950	0,03

*Safety factor = 1:4 - for static pressure safety factor 1:2

(▲) With **2FFI** female couplings equivalent sizes (see at page 12)

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil at 40°C (104°F) temperature.

Materials:

- High grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in C98 steel.

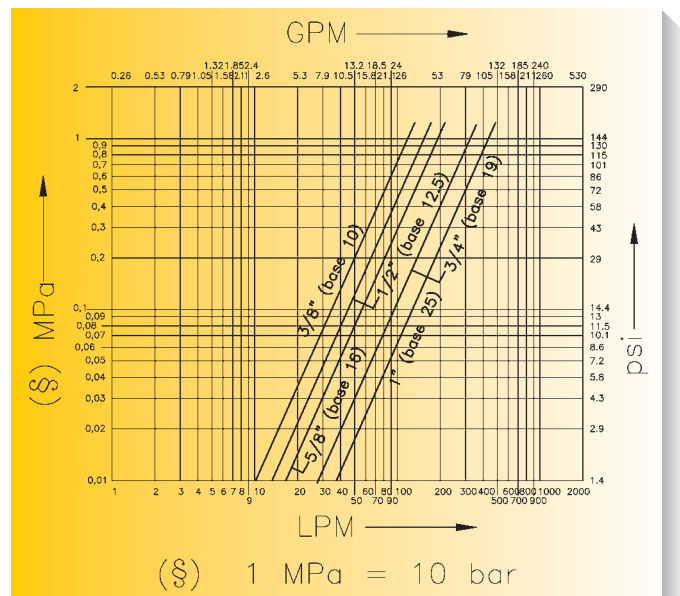
Seals:

Standard in oilproof NBR (Nitrile Rubber) and Polyurethane.

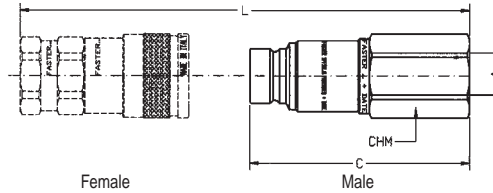
Working temperatures:

from -25°C (-13°F) to + 100°C (+212°F).

For different temperature, the quick-release coupling will be supplied with the appropriate seals.



Series **3FI**

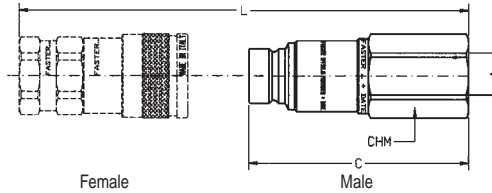


❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P				
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.			
	10	see 2FFN38 series	3FFI38 GAS M	3/8" BSP	DIN 3852-2-X			99,7	3,93			156,7	6,17			27	1,06						
			3FFI38 NPT M	3/8" NPTF	ANSI B1.20.3			99,7	3,93			156,7	6,17			27	1,06						
			3FFI38-12GAS M	1/2" BSP	DIN 3852-2-X			100,7	3,96			159,3	6,27			27	1,06						
	12,5	see 2FFI series and 2FSI series	*3FFI12 GAS M	3FFI12 GAS M	1/2" BSP	DIN 3852-2-X			117,2	4,61			182,1	7,17			34	1,34					
				3FFI12-34 GAS M	3/4" BSP	DIN 3852-2-X			117,2	4,61			182,1	7,17			34	1,34					
				*3FFI12-34 N M	3/4" NPTF	ANSI B1.20.3			122,2	4,81			191,1	7,52			34	1,34					
	16	see 2FFI series	*3FFI58 GAS M	*3FFI58 GAS M	5/8" BSP	DIN 3852-2-X			119,5	4,70			195,5	7,70			38	1,50					
				*3FFI58-34G M	3/4" BSP	DIN 3852-2-X			119,5	4,70			195,5	7,70			38	1,50					
				*3FFI58 NPT M	5/8" NPTF	ANSI B1.20.3			119,5	4,70			195,5	7,70			38	1,50					
	19	see 2FFI series and 2FSI series	*3FFI34 GAS M	3FFI34 GAS M	3/4" BSP	DIN 3852-2-X			132,6	5,22			210,9	8,30			42	1,65					
				3FFI34 NPT M	3/4" NPTF	ANSI B1.20.3			132,6	5,22			210,9	8,30			42	1,65					
				*3FFI34-1GAS M	1" BSP	DIN 3852-2-X			132,6	5,22			210,9	8,30			42	1,65					
	25	see 2FFI series and 2FSI series	*3FFI1 GAS M	3FFI1 GAS M	1" BSP	DIN 3852-2-X			146,5	5,77			224	8,82			50	1,97					
				3FFI1 NPT M	1" NPTF	ANSI B1.20.3			146,5	5,77			224	8,82			50	1,97					
				*3FFI1-114G M	1" 1/4 BSP	DIN 3852-2-X			146,5	5,77			224	8,82			50	1,97					
	10	see 2FFN38 series	*3FFI38-38S M	9/16" UNF	SAE J 1926-1			100,7	3,96			159,3	6,27			27	1,06						
			3FFI38-12SAE M	3/4" UNF	SAE J 1926-1			100,7	3,96			159,3	6,27			27	1,06						
	12,5	see 2FFI series and 2FSI series	*3FFI12-12S M	3FFI12-12S M	3/4" UNF	SAE J 1926-1			117,2	4,61			182,1	7,17			34	1,34					
				3FFI12-58SAE M	7/8" UNF	SAE J 1926-1			117,2	4,61			182,1	7,17			34	1,34					
	16	see 2FFI series	*3FFI58-58SAE M	3FFI58-34SAE M	1" 1/16 UN	SAE J 1926-1			117,2	4,61			182,1	7,17			34	1,34					
*3FFI58-58SAE M				7/8" UNF	SAE J 1926-1			119,5	4,70			195,5	7,70			38	1,50						
19	see 2FFI series and 2FSI series	*3FFI34-34SAE M	3FFI34-34SAE M	1" 1/16 UN	SAE J 1926-1			132,6	5,22			211,6	8,33			42	1,65						
			*3FFI34-1S M	1" 5/16 UN	SAE J 1926-1			132,6	5,22			211,6	8,33			42	1,65						
	10	see 2FFN38 series	*3FFI38-11/38S M	11/16" UN	ISO 8434-3			100,1	3,94			157,1	6,19			27	1,06						
			*3FFI38-11/12S M	13/16" UN	ISO 8434-3			101,7	4,00			167,6	6,60			27	1,06						
	12,5	see 2FFI series and 2FSI series	*3FFI12-11/12S M	3FFI12-11/12S M	13/16" UN	ISO 8434-3			116,2	4,57			181,4	7,14			34	1,34					
				*3FFI12-11/58S M	1" UNS	ISO 8434-3			118,9	4,68			186,8	7,35			34	1,34					
	16	see 2FFI series	*3FFI58-11/58S M	3FFI58-11/58S M	1" UNS	ISO 8434-3			124,5	4,90			206,5	8,13			38	1,50					
*3FFI34-11/34S M				1" 3/16 UN	ISO 8434-3			135	5,31			212	8,35			42	1,65						
25	see 2FFI series and 2FSI series	*3FFI11-11/1S M	3FFI11-11/1S M	1" 7/16 UN	ISO 8434-3			147	5,79			238	9,37			50	1,97						

❖ ISO size GAS = BSP *On request

Follows page 29

Series **3FI**



❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P	
					mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	10	see 2FFN38 series	3FFI38-12/38S M *3FFI38-12/12S M	11/16" UN 13/16" UN	ISO 8434-3 ISO 8434-3		122 123	4,80 4,84			208,6 209,6	8,21 8,25			27 27	1,06 1,06			34 36,5	1,34 1,44
	12,5	see 2FFI series and 2FSI series	*3FFI12-12/12S M 3FFI12-12/58S M 3FFI12-12/34S M	13/16" UN 1" UNS 1" 3/16 UN	ISO 8434-3 ISO 8434-3 ISO 8434-3		141,9 141,9 141,9	5,59 5,59 5,59			232,8 232,8 233,8	9,17 9,17 9,20			34 34 34	1,34 1,34 1,34			36,5 40,5 41,5	1,44 1,59 1,63
	16	see 2FFI series	*3FFI58-12/58S M	1" UNS	ISO 8434-3		145,5	5,73			249,5	9,82			38	1,50			40,5	1,59
	19	see 2FFI series and 2FSI series	3FFI34-12/34S M 3FFI34-12/1S M	1" 3/16 UN 1" 7/16 UN	ISO 8434-3 ISO 8434-3		158,6 158,3	6,24 6,23			266,5 266,5	10,49 10,49			42 42	1,65 1,65			41,5 42	1,63 1,65
	25	see 2FFI series and 2FSI series	*3FFI11-12/1S M	1" 7/16 UN	ISO 8434-3		166	6,54			282	11,10			50	1,97			42	1,65
	10	see 2FFN38 series	*3FFI38-13/38S M 3FFI38-13/12S M	9/16" UNF 3/4" UNF	ISO 8434-2 ISO 8434-2		104 104	4,09 4,09			171,5 171,5	6,75 6,75			27 27	1,06 1,06				
	12,5	see 2FFI series and 2FSI series	*3FFI12-13/12S M *3FFI12-13/58S M *3FFI12-13/34S M	3/4" UNF 7/8" UNF 1" 1/16 UN	ISO 8434-2 ISO 8434-2 ISO 8434-2		123 123 123	4,84 4,84 4,84			192,5 192,5 192,5	7,58 7,58 7,58			34 34 34	1,34 1,34 1,34				
	16	see 2FFI series	*3FFI58-13/58S M	7/8" UNF	ISO 8434-2		126	4,96			208	8,19			38	1,50				
	19	see 2FFI series and 2FSI series	*3FFI34-13/34S M	1" 1/16 UN	ISO 8434-2		136	5,35			226	8,90			42	1,65				
	25	see 2FFI series and 2FSI series	*3FFI11-13/1S M	1" 5/16 UN	ISO 8434-2		148	5,83			243	9,57			50	1,97				
	10	see 2FFN38 series	*3FFI38-14/38S M *3FFI38-14/12S M	9/16" UNF 3/4" UNF	ISO 8434-2 ISO 8434-2		115 115	4,53 4,53			204,6 204,6	8,06 8,06			27 27	1,06 1,06			32,5 36,6	1,28 1,44
	12,5	see 2FFI series and 2FSI series	3FFI12-14/12S M 3FFI12-14/58S M 3FFI12-14/34S M	3/4" UNF 7/8" UNF 1" 1/16 UN	ISO 8434-2 ISO 8434-2 ISO 8434-2		143,4 143,4 147,9	5,65 5,65 5,82			235,8 235,8 244,7	9,28 9,28 9,63			34 34 34	1,34 1,34 1,34			36,6 40,1 44,4	1,44 1,58 1,75
	16	see 2FFI series	*3FFI58-14/58S M	7/8" UNF	ISO 8434-2		150	5,91			254	10,00			38	1,50			40,1	1,58
	19	see 2FFI series and 2FSI series	*3FFI34-14/34S M	1" 1/16 UN	ISO 8434-2		158,6	6,24			270	10,63			42	1,65			44,4	1,75
	25	see 2FFI series and 2FSI series	*3FFI11-14/1S M	1" 5/16 UN	ISO 8434-2		167	6,57			285	11,22			50	1,97			44,4	1,75

❖ ISO size GAS = BSP *On request

► **FEATURES**

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve
- **Connectability:** female part under pressure male part free to drain
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to ISO 16028 and HTMA standard
- Quick-release couplings female part with split internal slider hydraulically balanced
- Connection up to maximum working pressure is achievable with minimal effort (standard male couplings FFI-2FFI)
- Sleeve with black zinc treatment



NEW

Patent Application Pending

► **Technical data**

(▲)

Size	ISO size	DN Nominal diameter	Rated flow				Force to connect 0 MPa		Force to connect 25 MPa (female)		Max. work. pressure		Minimum burst pressure				Fluid spillage cc max.
			mm		inc.		N	lb	N	lb	*		Connected		Female		
			l/min	GPM	MPa	PSI					MPa	PSI	MPa	PSI			
3/8"	06	10	9	0,35	60	15,9	130	28,6	170	37,4	25	3625	100	14500	100	14500	0,008
1/2"	08	12.5	11	0,43	85	22,5	200	44	240	52,8	25	3625	140	20300	100	14500	0,01
3/4"	12	19	16	0,63	145	38,4	290	63,9	330	72,6	25	3625	120	17400	100	14500	0,02

*Safety factor = 1:4 - for static pressure safety factor 1:2
 (▲) With **FFI** male couplings equivalent sizes (see at page 16)

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- High grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

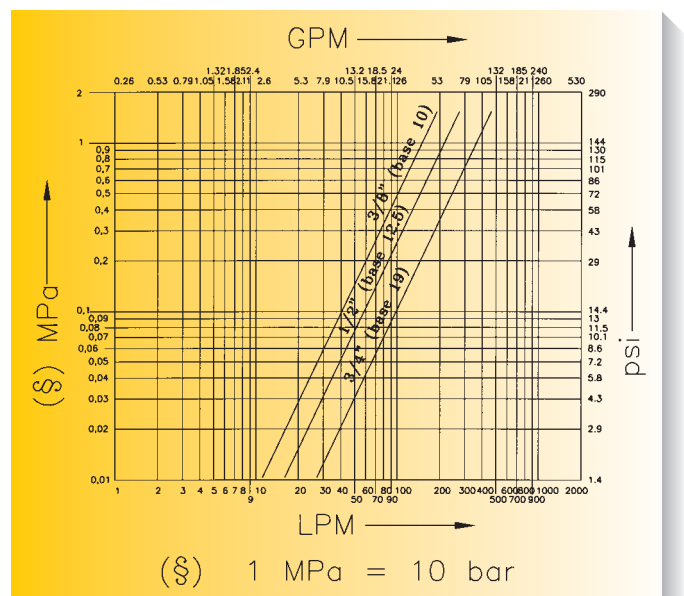
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

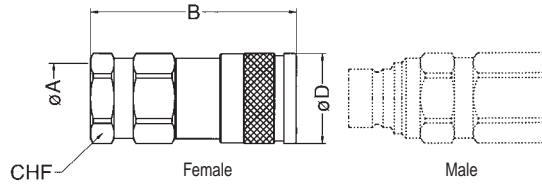
In pure PTFE.

Working temperatures:

with standard seals from -25°C (-13°F) to +100°C (+212°F). For different temperature, the quick-release coupling will be supplied with the appropriate seals.



Series **3FI**



	❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P		
						mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm
	10	3FFI38 GAS F	see FFI-2FFI-3FFI series	3/8" BSP	DIN 3852-2-X	73	2,87			30	1,18			27	1,06							
		3FFI38-12 GAS F		1/2" BSP	DIN 3852-2-X	74,6	2,94			30	1,18			27	1,06							
		3FFI38 NPT F		3/8" NPTF	ANSI B1.20.3	73	2,87			30	1,18			27	1,06							
		3FFI38-12 NPT F		1/2" NPTF	ANSI B1.20.3	75,6	2,98			30	1,18			27	1,06							
	12,5	3FFI12 GAS F	see FFI-2FFI-3FFI series	1/2" BSP	DIN 3852-2-X	82,4	3,24			38	1,50			32	1,26							
		*3FFI12-34 GAS F		3/4" BSP	DIN 3852-2-X	86,4	3,40			38	1,50			32	1,26							
		*3FFI12 NPT F		1/2" NPTF	ANSI B1.20.3	82,4	3,24			38	1,50			32	1,26							
	19	*3FFI12-34 NPT F	see FFI-2FFI-3FFI series	3/4" NPTF	ANSI B1.20.3	86,4	3,40			38	1,50			32	1,26							
		*3FFI34 GAS F		3/4" BSP	DIN 3852-2-X	100,3	3,95			48	1,89			42	1,65							
3FFI34-1 GAS F		1" BSP		DIN 3852-2-X	100,3	3,95			48	1,89			42	1,65								
10	*3FFI34 NPT F	see FFI-2FFI-3FFI series	3/4" NPTF	ANSI B1.20.3	100,3	3,95			48	1,89			42	1,65								
	*3FFI34-1 NPT F		1" NPTF	ANSI B1.20.3	100,3	3,95			48	1,89			42	1,65								
	10	*3FFI38-12SAE F	see FFI-2FFI-3FFI series	3/4" UNF	SAE J 1926-1	74,6	2,94			30	1,18			27	1,06							
		3FFI38-58SAE F		7/8" UNF	SAE J 1926-1	74,6	2,94			30	1,18			27	1,06							
	12,5	*3FFI12-12SAE F	see FFI-2FFI-3FFI series	3/4" UNF	SAE J 1926-1	82,4	3,24			38	1,50			32	1,26							
		3FFI12-58SAE F		7/8" UNF	SAE J 1926-1	84,4	3,32			38	1,50			34	1,34							
	19	*3FFI12-34SAE F	see FFI-2FFI-3FFI series	1" 1/16 UN	SAE J 1926-1	86,9	3,42			38	1,50			34	1,34							
		3FFI34-34SAE F		1" 1/16 UN	SAE J 1926-1	100,3	3,95			48	1,89			42	1,65							
		3FFI34-1SAE F		1" 5/16 UN	SAE J 1926-1	101,5	4,00			48	1,89			42	1,65							

❖ ISO size GAS = BSP *On request

FEATURES

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling the male coupling
- **Shut-off system:** flat valve
- **Connectability:** without pressure
- **Disconnection under pressure:** in case of emergency only
- **Interchangeability:** according to ISO 16028 standards
- Complying with ISO 17567 standards for Power Beyond systems on agriculture machines
- Suitable for rigid tubes and distributors
- Breakaway feature


Technical data

(▲)

Size	ISO size	DN Nominal diameter		Rated flow		Force to connect		Max. work. pressure		Minimum burst pressure				Fluid spillage cc max.	
		mm	inc.	l/min	GPM	N	lb	MPa	PSI	Connected		Female			
										MPa	PSI	MPa	PSI		
1/4"	04	6.3	7	0,27	25	6,6	110	24,2	25	3625	100	14500	100	14500	0,006
3/8"	06	10	9	0,35	70	18,5	165	36,3	25	3625	100	14500	100	14500	0,008
1/2"	08	12.5	11	0,43	90	23,8	210	46,2	25	3625	100	14500	100	14500	0,01
3/4"	12	19	16	0,63	150	39,7	230	50,7	25	3625	100	14500	100	14500	0,02
1"	16	25	18	0,71	200	52,9	300	66,1	25	3625	100	14500	100	14500	0,03

*Safety factor = 1:4 - for static pressure safety factor 1:2
 (▲) With FFI male couplings equivalent size

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

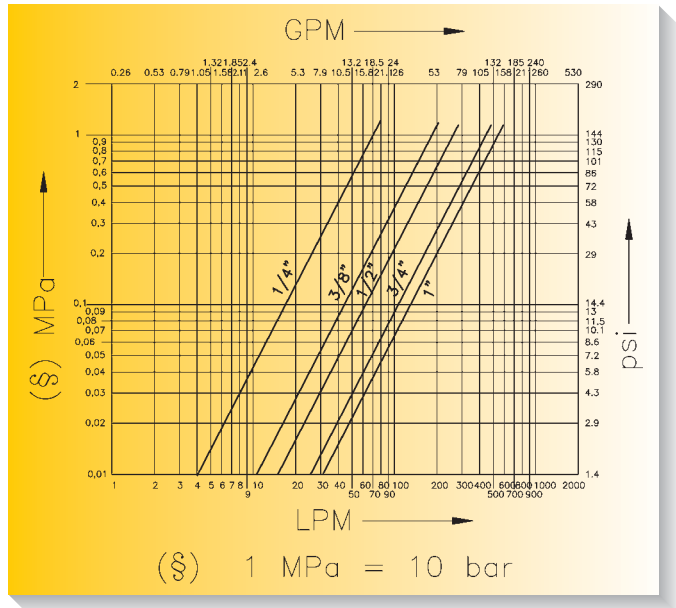
- Female in steel with carbonitrided wear parts.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

Standard in oilproof NBR (Nitrile Rubber) and Polyurethane.
 On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:
 in pure PTFE.

Working temperatures:
 with standard seals from -25°C (-13°F) to +100°C (+212°F).
 For different temperature, the quick-release coupling will be supplied with the appropriate seals.

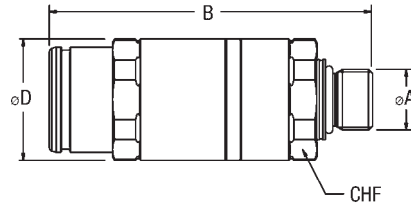


The descriptions and illustrations in this catalogue are for information only and not binding.

► Available items



Series **F_I**



	❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		P	
						mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	04	* FPI04 14GAS F	male according to ISO 16028 size 1/4"	1/4" BSP	DIN 3852-2-X	88	3.46			32	1.26			30	1.18						
	06	* FPI06 38GAS F	male according to ISO 16028 size 3/8"	3/8" BSP	DIN 3852-2-X	95	3.74			36	1.42			34	1.34						
	08	* FPI08 12GAS F	male according to ISO 16028 size 1/2"	1/2" BSP	DIN 3852-2-X	110	4.33			45	1.77			38	1.50						
	12	* FPI12 34GAS F	male according to ISO 16028 size 3/4"	3/4" BSP	DIN 3852-2-X	125	4.92			51	2.01			48	1.89						
	16	* FPI16 1GAS F	male according to ISO 16028 size 1"	1" BSP	DIN 3852-2-X	145	5.71			64	2.52			60	2.36						
	04	FPI04 1/1415 F	male according to ISO 16028 size 1/4"	M14x1,5	ISO 6149-2	89	3.50			32	1.26			30	1.18						
	06	* FPI06 1/1415 F	male according to ISO 16028 size 3/8"	M18x1,5	ISO 6149-2	93	3.66			36	1.42			34	1.34						
		FPI06 1/1815 F	male according to ISO 16028 size 3/8"	M14x1,5	ISO 6149-2	96	3.78			36	1.42			34	1.34						
	08	FPI08 1/2215 F	male according to ISO 16028 size 1/2"	M22x1,5	ISO 6149-2	110	4.33			45	1.77			38	1.50						
	12	FPI12 1/2215 F	male according to ISO 16028 size 3/4"	M22x1,5	ISO 6149-2	127	5.00			51	2.01			48	1.89						
		FPI12 1/272 F	male according to ISO 16028 size 3/4"	M27x2	ISO 6149-2	130	5.12			51	2.01			48	1.89						
16	FPI16 1/302 F	male according to ISO 16028 size 1"	M30x2	ISO 6149-2	146	5.75			64	2.52			60	2.36							
	04	FPI04 14/15 F	male according to ISO 16028 size 1/4"	M14x1,5	ISO 8434-1-L	112	4.41			32	1.26			30	1.18			8.2	0.32	34	1.34
	06	* FPI06 5/1815 F	male according to ISO 16028 size 3/8"	M18x1,5	ISO 8434-1-L	118	4.65			36	1.42			34	1.34			12.2	0.48	36	1.42
	08	* FPI08 5/2215 F	male according to ISO 16028 size 1/2"	M22x1,5	ISO 8434-1-L	135	5.31			45	1.77			38	1.50			15.2	0.60	38	1.50
	12	* FPI12 5/2615 F	male according to ISO 16028 size 3/4"	M26x1,5	ISO 8434-1-L	155	6.10			51	2.01			38	1.50			18.2	0.72	40	1.57
	16	FPI16 5/362 F	male according to ISO 16028 size 1"	M36x2	ISO 8434-1-L	170	6.69			64	2.52			60	2.36			28.2	1.11	43	1.69
	04	FPI04 14/38S F	male according to ISO 16028 size 1/4"	9/16" UNF	ISO 8434-2	111	4.37			32	1.26			30	1.18					32.5	1.28
	06	* FPI06 14/38S F	male according to ISO 16028 size 3/8"	9/16" UNF	ISO 8434-2	115	4.53			36	1.42			34	1.34					32.5	1.28
	08	* FPI08 14/12S F	male according to ISO 16028 size 1/2"	3/4" UNF	ISO 8434-2	140	5.51			45	1.77			38	1.50					36.6	1.44
	12	* FPI12 14/34S F	male according to ISO 16028 size 3/4"	1-1/16" UN	ISO 8434-2	154	6.06			51	2.01			48	1.89					44.4	1.75
	16	FPI16 14/1S F	male according to ISO 16028 size 1"	1-5/16" UN	ISO 8434-2	170	6.69			64	2.52			60	2.36					44.4	1.75

❖ ISO size GAS = BSP *On request

► Power Beyond System

see page 35

► **FEATURES**

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling the male coupling
- **Shut-off system:** flat valve
- **Connectability:** both male and female couplings under pressure
- **Disconnection under pressure:** pulling the male coupling (single step)
- **Interchangeability:** according to ISO 16028 standards
- Connectable and disconnectable under pressure with every male coupling according to ISO 16028 standards
- Complying with ISO 17567 standards for Power Beyond systems on agriculture machines
- Pressure unbalance ratio 2.5:1
- Suitable for rigid tubes and distributors
- Breakaway feature
- Backward internal valve for clean oil drainage
- Internal mechanical block patented



► **Technical data**

(▲)

Size	ISO size	DN Nominal diameter		Rated flow		Force to connect 0 MPa		Force to connect 25 MPa male+female		Max. work. pressure		Minimum burst pressure				Fluid spillage cc max.
		mm	inc.	l/min	GPM	N	lb	N	lb	MPa	PSI	Connected		Female		
												MPa	PSI	MPa	PSI	
1/2"	08	12.5	11, 0.43	120	31,7	260	57,2	280	61,7	25	3625	100	14500	100	14500	0,01
3/4"	12	19	16, 0.63	160	42,3	400	88,1	420	92,5	25	3625	100	14500	100	14500	0,02

*Safety factor = 1:4 - for static pressure safety factor 1:2

(▲) With FFI male couplings equivalent size

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

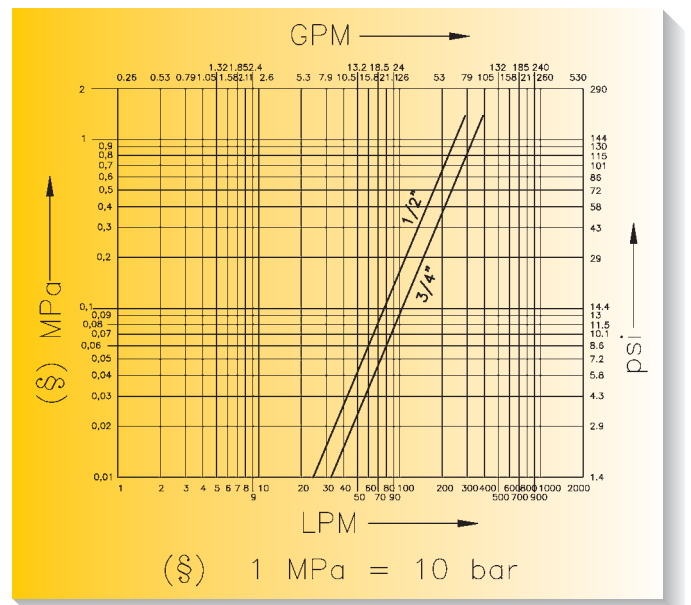
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

Working temperatures:

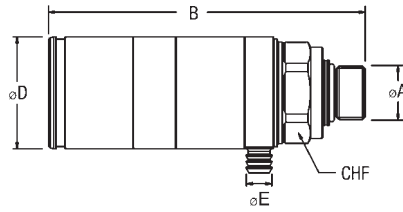
with standard seals from -25°C (-13°F) to +100°C (+212°F). For different temperature, the quick-release coupling will be supplied with the appropriate seals.



The descriptions and illustrations in this catalogue are for information only and not binding.

► Available items

Series **5FPI**



	❖	Female	Male	Thread Ø A	Standards	B		C		Ø D		Ø E		CHF		CHM		Ø T		P	
						mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	08	* 5FPI08 12GAS FA	male according to ISO 16028 size 1/2"	1/2" BSP	DIN 3852-2-X	130	5.12			46	1.81	10.5	0.41	38	1.50						
	12	* 5FPI12 34GAS FA	male according to ISO 16028 size 3/4"	3/4" BSP	DIN 3852-2-X	165	6.50			58	2.28	10.5	0.41	38	1.50						
	08	5FPI08 1/2215 FA	male according to ISO 16028 size 1/2"	M22x1,5	ISO 6149-2	131	5.16			46	1.81	10.5	0.41	38	1.50						
	12	5FPI12 1/272 FA	male according to ISO 16028 size 3/4"	M27x2	ISO 6149-2	164	6.46			58	2.28	10.5	0.41	38	1.50						
	08	* 5FPI08 6/2215 FA	male according to ISO 16028 size 1/2"	M22x1,5	ISO 8434-1-S	160	6.30			46	1.81	10.5	0.41	38	1.50			14.2	0.56	35	1.38
	12	5FPI12 6/362 FA	male according to ISO 16028 size 3/4"	M36x2	ISO 8434-1-S	192	7.56			58	2.28	10.5	0.41	38	1.50			25.2	0.99	47	1.85
	08	5FPI08 14/58S FA	male according to ISO 16028 size 1/2"	7/8" UNF	ISO 8434-2	156	6.14			46	1.81	10.5	0.41	38	1.50					40.1	1.58
		5FPI08 14/34S FA	male according to ISO 16028 size 1/2"	1-1/16" UN	ISO 8434-2	160	6.30			46	1.81	10.5	0.41	38	1.50					44.4	1.75
	12	* 5FPI12 14/34S FA	male according to ISO 16028 size 3/4"	1-1/16" UN	ISO 8434-2	192	7.56			58	2.28	10.5	0.41	38	1.50					44.4	1.75
	08	5FPI08 21/22 FA	male according to ISO 16028 size 1/2"	M22x1,5	ISO 9974-2	131	5.16			46	1.81	10.5	0.41	38	1.50						
	12	* 5FPI12 21/27 FA	male according to ISO 16028 size 3/4"	M27x2	ISO 9974-2	162	6.38			58	2.28	10.5	0.41	38	1.50						

❖ ISO size GAS = BSP *On request

► Power Beyond System

Faster has recently developed a complete range for flat face quick-release couplings purposely designed for Agricultural applications with Power Beyond system complying with ISO 17567 standards. These quick-release couplings (FPI and 5FPI series) have been designed to be installed on this kind of agricultural machines (equipped of additional remote hydraulic systems) and are interchangeable according to ISO 16028 standards.

		Flow Class 1	Flow Class 2	Flow Class 3
load sensing	LS	FPI04 (1/4")	FPI04 (1/4")	FPI04 (1/4")
drain	D	FPI06 (3/8")	FPI06 (3/8")	FPI06 (3/8")
pressure	P	5FPI08 (1/2")	5FPI08 (1/2")	5FPI12 (3/4")
return	R	FPI08 (1/2")	FPI12 (3/4")	FPI16 (1")

Series	Size	Feature	Connection under Pressure	Disconnection under pressure	Push-Pull connection
FPI04	1/4"	•	no	no	•
FPI06	3/8"	•	no	no	•
FPI08	1/2"	•	no	no	•
FPI12	3/4"	•	no	no	•
FPI16	1"	•	no	no	•
5FPI08	1/2"	•	•	•	•
5FPI12	3/4"	•	•	•	•

• Available feature



Patent Application Pending

FEATURES

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** flat valve
- **Connectability:** both male and female couplings under pressure 3FFI series
- **Disconnection under pressure:** in two steps
- **Interchangeability:** according to ISO 16028 standard

- Connection and disconnection up to maximum working pressure are achievable with minimal effort
- Equipped with two 1/2" size couplings, male and female parts
- Drain line in the middle by 3/8" size male coupling

Technical data

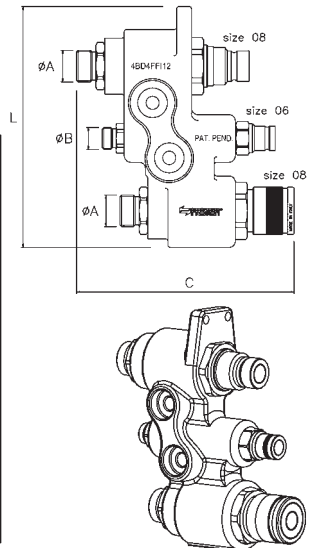
Size	ISO size	DN Nominal diameter		Rated flow		Force to connect 0 MPa		Force to connect 25 MPa		Max. work. pressure *		Minimum burst pressure				Fluid spillage cc max.		
		mm	inc.	l/min	GPM	N	lb	N	lb	MPa	PSI	Connected		Male			Female	
1/2"	08	12.5	11, 0.43	100	26,4	250	55	450	100	27,5	3987	110	15950	110	15950	110	15950	0,01

*Safety factor = 1:4 - for static pressure safety factor 1:2

Available items

Cast iron & Couplings	Couplings Type	Thread Ø A	Standards Ø A	Thread Ø B	Standards Ø B	C		L	
						mm	inc.	mm	inc.
08 & 06 4BD4FI12-58SAE	couplings according to ISO 16028 size 1/2" and 3/8"	7/8" UNF	SAE J1926-1	9/16" UNF	SAE J1926-1	175	6,89	193	7,60
08 & 06 4BD4FI12-11/58S	couplings according to ISO 16028 size 1/2" and 3/8"	1-3/16" UN	ISO 8434-3	9/16" UNF	SAE J1926-1	175	6,89	193	7,60
08 & 06 4BD4FI12-13/58S 4BD4FI12-13/34S	couplings according to ISO 16028 size 1/2" and 3/8"	7/8" UNF	ISO 8434-2	9/16" UNF	SAE J1926-1	175	6,89	193	7,60
		1-1/16" UN	ISO 8434-2	9/16" UNF	SAE J1926-1	175	6,89	193	7,60

♠ ISO size *On request



Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil temperature at 40°C (104°F).

Materials:

- Female in steel with carbonitrided wear parts.
- Male in high grade carbon steel, induction hardened.
- Valves in steel.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in AISI and C98 steel.
- High resistance balls 100 C6.

Seals:

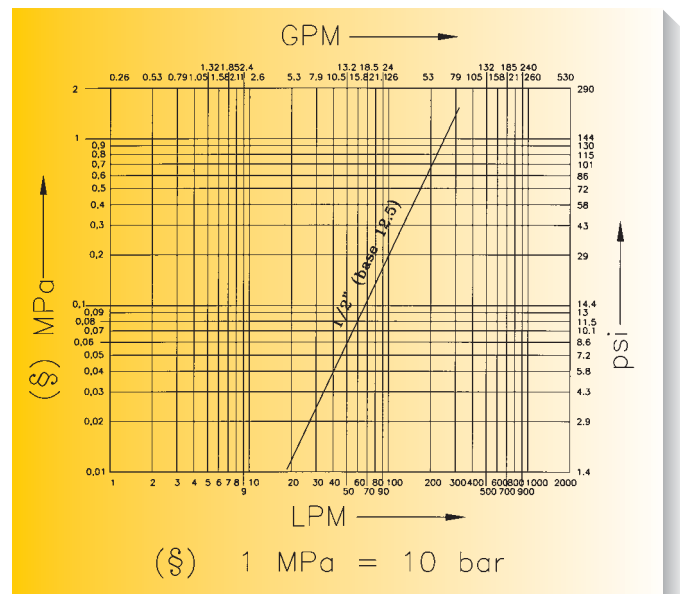
Standard in oilproof NBR (Nitrile Rubber) and Polyurethane. On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings:

In pure PTFE.

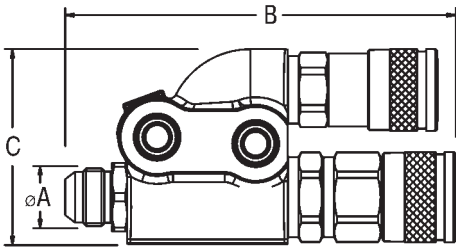
Working temperatures:

with standard seals from -25°C (-13°F) to +100°C (+212°F). For different temperature, the quick-release coupling will be supplied with the appropriate seals.

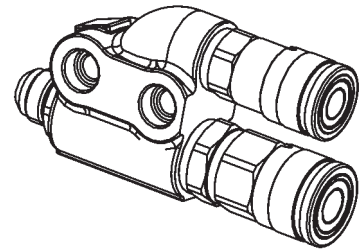


► FEATURES

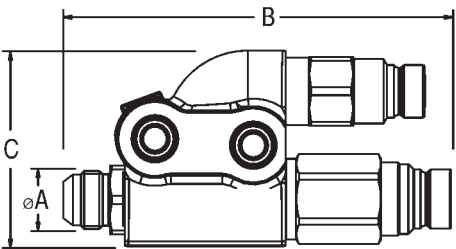
Cast iron manifolds BM series are equipped with two quick-release flat-face couplings 1/2" and 5/8" size, 2FFI-FFI series, male and female part. Both lines are in communication, allowing the use of implements at medium and big flowrates. Blocks are provided of fixing holes to firmly fix the manifolds to the machine.



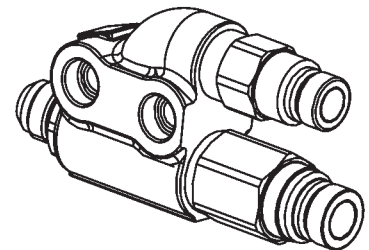
	❖	Female cast iron	Male coupling	Thread ϕA	Standards	B		C	
						mm	inc.	mm	inc.
	08 & 10	BM2FFIB 58SAE F	male according to ISO 16028 size 1/2" and 5/8"	7/8" UNF	SAE J1926-1	154	6.06	91	3.58
	08 & 10	BM2FFIB 11/34S F	male according to ISO 16028 size 1/2" and 5/8"	1-3/16" UN	ISO 8434-3	178	7.01	91	3.58
	08 & 10	BM2FFIB 13/34S F	male according to ISO 16028 size 1/2" and 5/8"	1-1/16" UN	ISO 8434-2	183	7.20	91	3.58



❖ ISO size *On request



	❖	Male cast iron	Female coupling	Thread ϕA	Standards	B		C	
						mm	inc.	mm	inc.
	08 & 10	BMFFIB 58SAE M	female according to ISO 16028 size 1/2" and 5/8"	7/8" UNF	SAE J1926-1	153	6.02	91	3.58
	08 & 10	BMFFIB 11/34S M	female according to ISO 16028 size 1/2" and 5/8"	1-3/16" UN	ISO 8434-3	177	6.97	91	3.58
	08 & 10	BMFFIB 13/34S M	female according to ISO 16028 size 1/2" and 5/8"	1-1/16" UN	ISO 8434-2	182	7.17	91	3.58



❖ ISO size *On request

► Spare parts kit

When seals are damaged due to wear of foreign material, it is necessary to replace them.

Original FASTER® spare parts kit are available.

Detailed instructions are included to achieve the correct replacement of damaged parts.

No special tools are required to carry out replacement.

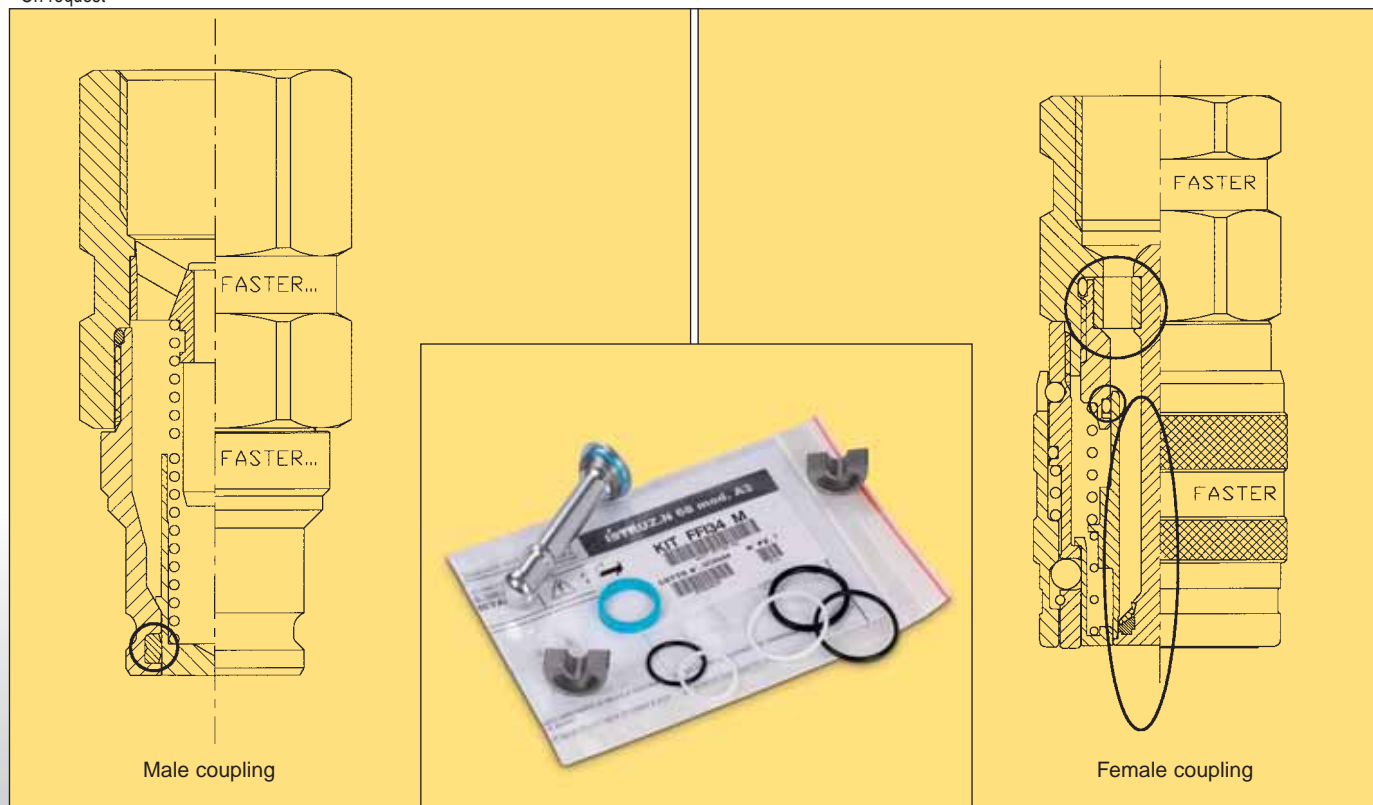
For seal changing do not use sharpened tools that could damage the new seals or the coupling itself.

A tool kit for seals replacement is available with code KIT UT2PO.

Kit series **F**
2F
3F

Series	Size		ISO size	Male Standard seals	Female Standard seals
2FFN38	3/8"	06	10	KIT 2FFN38 M	KIT 2FFN38 F
2FFN...	1/2"	08	-	KIT 2FFN12 M	KIT 2FFN12 F
	3/4"	12	-	KIT 2FFN34 M	KIT 2FFN34 F
	1"	16	-	KIT 2FFN1 M	KIT 2FFN1 F
2FFJ34	3/4"	12	-	KIT 2FFJ34 M	KIT 2FFJ34 F
FFI... 2FFI... 3FFI...	1/4"	04	6,3	KIT 2FFI 14 M	KIT 2FFI14 F
	1/2"	08	12,5	KIT 2FFN 12 M	KIT 2FFI12 F
	5/8"	10	16	KIT FFI58 M	KIT 2FFI58 F
	3/4"	12	19	KIT FFI 34 M	KIT 2FFI34 F
	1"	16	25	KIT 2FFNP1 M	KIT 2FFI1 F
	1 1/2"	24	-	KIT 2FFNP112 M	* KIT 2FFI112 F
	2"	32	-	* KIT FFI2 M	* KIT 2FFI112 F

* On request



Male coupling

Female coupling

► **Automatic dust tap**

Self closing dust cap is made out of Acetal Resin and assures the protection of the female when disconnected. The shield stays open during the connection phase and it closes by a push down motion when the coupling is disconnected. They are available in different colours and on request it is possible to personalize them with a specific logo.



Series	Size		ISO size	Dust cap for female					
				Blue	Yellow	Red	Black	Green	Brown
2FFN38	3/8"	06	10	TAF 38	TAF 38 G	TAF 38 R	TAF 38 N	TAF 38 V	*TAF 38 M
2FFN12	1/2"	08	-	TA 12	TA 12 G	TA 12 R	TA 12 N	TA 12 V	TA 12 M
2FFI12	1/2"	08	12,5	TA 12	TA 12 G	TA 12 R	TA 12 N	TA 12 V	TA 12 M

*On request

► **Manual dust covers**

Dust covers are very important accessories to guarantee the proper function and life of the product. They are available in oilproof PVC which can withstand sudden changes of temperatures without losing original characteristics. For very high temperatures or heavy applications they are available in aluminium with plated brass chain and steel ring.



Series	Size	ISO size	Male dust protection for female		Female dust protection for male	
			TM series		TF series	
			PVC	Aluminium	PVC	Aluminium
...FFN...	06	10	TM F38	TM 2FN38 S	TF F38	TF 2FN38 S
	08	-	TM 2FN12	TM 2FN12 S	TF 2FN12	TF 2FN12 S
	12	-	TM 2FN34	TM 2FN34 S	TF 2FN34	TF 2FN34 S
	16	-	TM 2FN1	TM 2FN1 S	TF 2FN1	TF 2FN1 S
...FFI...	04	6,3	TM 2FI14	TM 2FI14 S	TF 2FI14	TF 2FI14 S
	08	12,5	TM 2FI12	TM 2FI12 S	TF 2FI12	TF 2FI12 S
	10	16	TM 2FI58	* TM 2FI58 S	TF 2FI58	* TF 2FI58 S
	12	19	TM 2FI34	TM 2FI34 S	TF 2FI34	TF 2FI34 S
	16	25	TM 2FI1	* TM 2FI1 S	TF 2FI1	* TF 2FI1 S
	24	-		* TM 2FI112 S		* TF 2FI112 S
	32	-		* TM 2FI2 S		* TF 2FI2 S
	48	-		* TM 2FI3 S		* TF 2FI3 S

*On request



▶ **FPQ Treatment (FASTER® Premier Quality)**

All FF.. couplings, on request, can be supplied with the revolutionary and exclusive **FPQ (FASTER® Premier Quality)** surface protection. Such a treatment adds to the technical characteristics of standard series couplings a corrosion resistance 3 times a standard zinc plating and Cr III passivation. Contact **Faster Research & Development Dept.** for ordering items of specify **FPQ**.

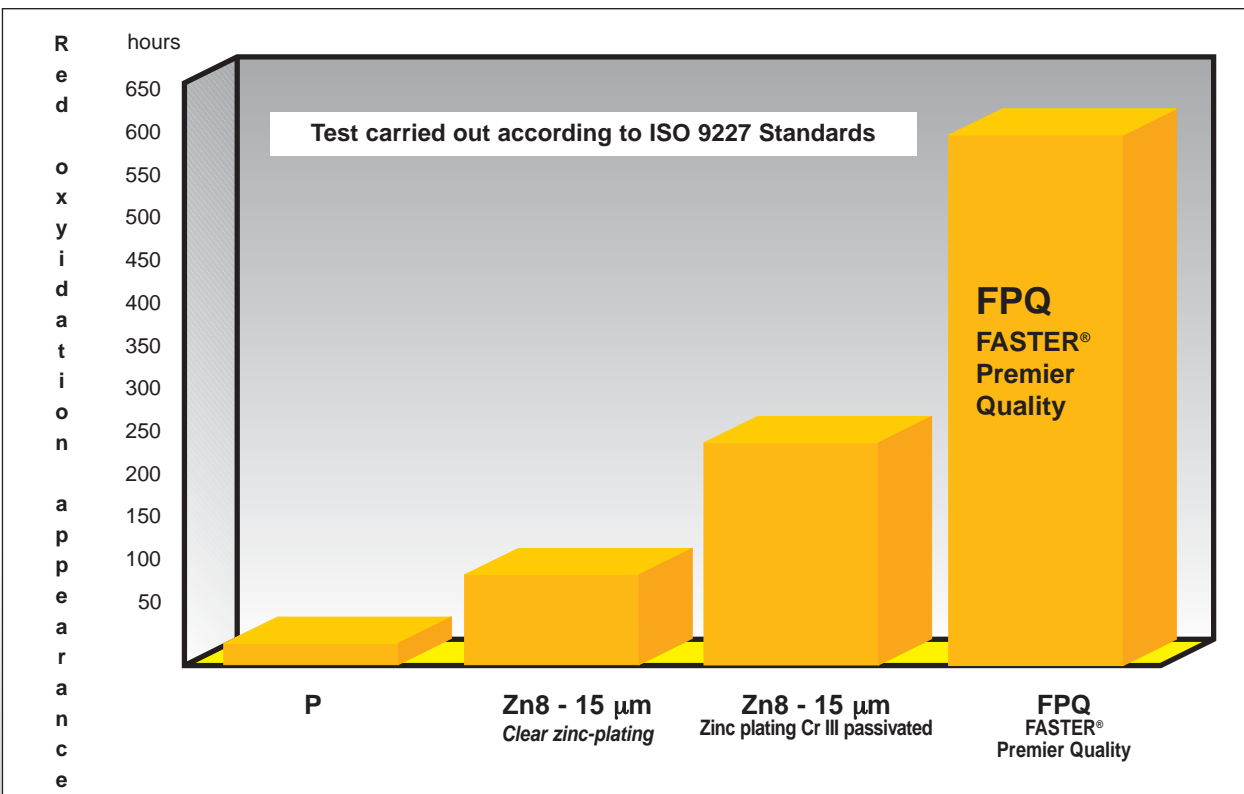
Treatment



Patent Application Pending

Patent Application Pending

▶ **Resistance to salt spray of the most common plating treatments**





NEW

SPECIAL PRODUCTS

FEATURES

One of the most critical aspects when using quick-release couplings is the never ending presence of dust and dirt.

This can make the operation of connection and disconnection very difficult and eventually cause oxidation that make the internal components lock up.

Fastercleaner® is the ideal product to loosen, lubricate and protect the quick-release couplings contaminated by dirt, earth and sand.

In a few seconds the internal components unjam with the benefit to regenerate completely the coupling performance.

Thanks to the **propellant mixture 134A**, this product is **completely ecological**, is 100% compatible with Nitrile Rubber (NBR), Viton® and Polyurethane seals used on FASTER® couplings.

Part number:

FASTERCLEANER
BOTTLE 600 ml. - QUICK-RELEASE COUPLINGS LOOSENER

FASTERCLEANEREX
DISPLAY-BOX WITH 12 FASTERCLEANER

FEATURES

Excellent wear resistance to temperature variations.

Fastergrease is a special synthetic grease cartridge with high lubrication performances.

Beyond lubricating moving parts on **agriculture and construction machines** Fastergrease product is suitable for giving total protection on **Multifaster G series**.

It has to be used with the **Fastergrease-Gun**, a complete grease gun set arranged with a quick-release coupling purposely developed to connect on to standard connectors.

Part number:

FASTERGREASE
CARTRIDGE 450 ml. SYNTHETIC GREASE -55°C

FASTERGREASE EX
DISPLAY-BOX WITH 12 FASTERGREASE

FASTERGR GUN
GREASE-GUN SET

fastercleaner®

CLEANS UNJAMS LUBRICATES



fastergrease

EXCELLENT WEAR RESISTANCE
TO TEMPERATURE VARIATIONS

-55 °C

+180 °C



► Built-in flat-face quick-release couplings for multiconnections

Built-in flat-face quick-release couplings are supplied on request and can be mounted on panels and housing specifically designed according to the customer's specification. They are particularly suitable for machine tool and plastic moulding based on the fluid used and a wide range of threads. For more specific technical information please contact **Faster Research & Development**.

- **2FFNB**: female couplings to be assembled in the block
- **2FFNC**: female couplings to be assembled through a compact panel (low thickness)
- **2FFNP**: male couplings with double valve
- **3FFNP**: male couplings connectable under pressure

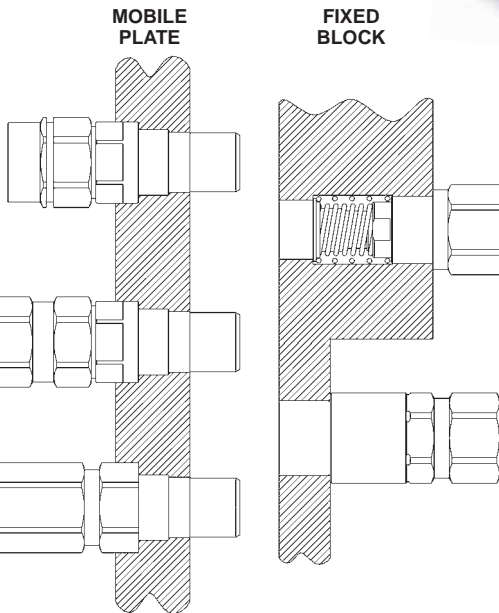
Series **2F_{NB}** **2F_{NC}**
2F_{NP} **3F_{NP}**



Patent
Application
Pending

3F_{NP}
(Male)

Series **FF_{NP}**



Series **2FF_{NP}**

Series **3FF_{NP}**

For further information and technical details please ask for the specific catalogue.



CAT. 0120-GB
Industrial series

Series **2FF_{NB}**

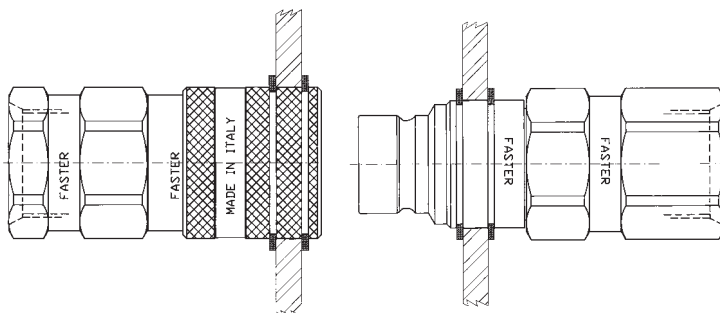
Series **2FF_{NC}**

2F_{NC}
(Female)

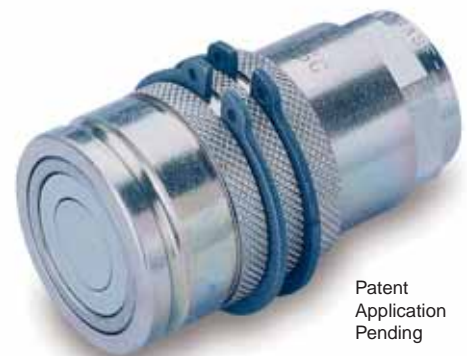


► Bulkhead

Flat-face couplings **2FFI** and **2FFN38** series can be supplied on request with particular adaptors or sleeves for panel mounting. For overall dimensions, technical characteristics and ordering items please contact **Faster Research & Development Dept.**



Series **2F_{PP}**



Patent
Application
Pending



► Quick-release coupling block for automatic connection of several hydraulic electrical and pneumatic lines.

The **MULTIFASTER** is a **PATENTED** multiple connection system which allows simultaneous automatic connection of several hydraulic, electrical and pneumatic lines.

The connection is simply achieved without any auxiliary tools even at maximum working pressure.

Flat-face couplings used in the **MULTIFASTER** eliminate oil spillage during disconnection and air inclusion during connection.

The fixed part of the **MULTIFASTER** is completely flat in order to facilitate cleaning.

The **MULTIFASTER** can also be equipped with electrical and pneumatic connections.

For further information and technical details please ask for the specific catalogue.



CAT. 0111-GB
Multifaster series

MULTIFASTER SERIES



Patent
Applications
Pending

► THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLING

- **PATENTED** system for simultaneous connection of several hydraulic, electrical and pneumatic lines.
- Eliminates the risk of lines inversion.
- Special seals made in Polyurethane against extrusion and wear.
- Safety locking device avoids accidental disconnection.
- Protective dust cap.
- Surface on fixed block completely flat: easy to be cleaned.
- Connectable and disconnectable under pressure.
- **3P MULTIFASTER series** for an effortless connection under working pressure.
- Ecological: no spillage.
- Wide range of threads.
- Easy to be mounted also on pre-existent systems.

FASTER® exclusive technology

3FFV flat-face screw-on couplings
connectable under pressure.



In the picture

Series

3F_V

FASTER[®]

Patent applications pending



Safety sleeve against accidental disconnection

Automatic thread protection made of steel

Hexagonal shape for connection under pressure

Polyurethane seals: high resistance to extrusion and wear

Flat-face valves

Double valve patented

▶ THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLING

- 1) Connectable with male and female parts under maximum working pressure.
- 2) Great robustness of internal components hydraulically stressed.
- 3) Flat-face design to avoid dirt contamination.
- 4) Completely covered threads to avoid accidental damages.
- 5) **FPQ FASTER[®] Premier Quality** high protection against corrosion (see at page 40).
- 6) Soft Nylon protective covers (PRO series) and aluminium protections are available to ensure a higher resistance to atmospheric agents (see at page 49).



Patent Application Pending

FEATURES

- **Connection system:** screw-on
- **Disconnection system:** screw-on
- **Shut-off system:** flat valve
- **Connectability:** both male and female couplings under pressure
- **Disconnection under pressure:** allowed
- **Interchangeability:** according to Faster internal standard

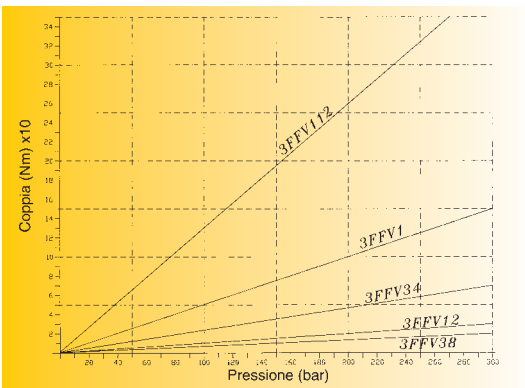
- Screw-on latching system by hexagonal sleeve
- Male couplings with double valve
- Additional safety sleeve
- FPQ Faster Premier Quality surface treatment (see page 40)
- Automatic slider for threads protection
- Double threaded connection

Technical data

Size ❖	DN Nominal diameter		Rated flow		Max. work. pressure *		Minimum burst pressure						Fluid spillage cc max.	
	mm	inc.	l/min	GPM	MPa	PSI	Connected		Male		Female			
							MPa	PSI	MPa	PSI	MPa	PSI		
3/8"	06	9	0,35	45	11,9	30	4350	134	19430	140	20300	110	15950	0,008
1/2"	08	11	0,43	72	19	30	4350	105	15225	100	14500	100	14500	0,01
3/4"	12	16	0,63	150	39,7	30	4350	100	14500	100	14500	100	14500	0,025
1"	16	18	0,71	190	50,2	40	5800	120	17400	160	23200	120	17400	0,03
1 1/2"	24	25	0,98	320	84,7	40	5800	120	17400	160	23200	120	17400	0,04

*Safety factor = 1:4 - for static pressure safety factor 1:2

Connection torque



All data in the graphic can be different based on the equipment used and the working conditions. For more precise technical information please contact **Faster Technical Dept.**

Pressure drop graph: test bench to ISO 7241-2 specifications with ISO VG 32 oil at 40°C (104°F) temperature.

Materials:

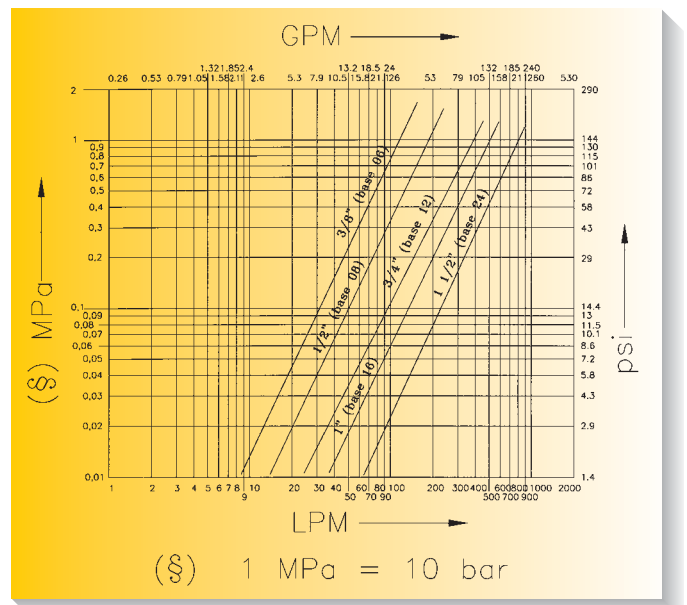
- Female and male in steel with grade carbon steel.
- Valves in steel.
- Surface treatment:
- **FPQ FASTER® Premier Quality** (see page 40)
- Springs in stainless steel.
- High resistance balls 100 C6.

Seals:

Standard in Polyurethane and oilproof NBR (Nitrile Rubber).
On request: Viton, Neoprene, EPDM or other seals.

Working temperatures:

from -25°C (-13°F) to +100°C (+212°F).
For different temperature, the quick-release coupling will be supplied with the appropriate seals.

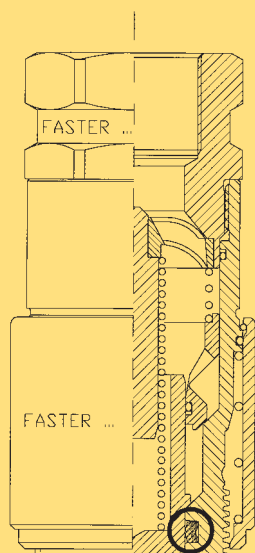


The descriptions and illustrations in this catalogue are for information only and not binding.

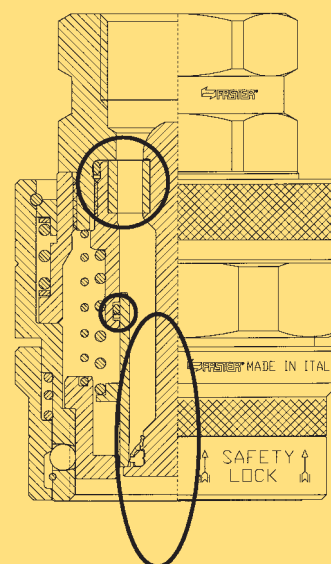
► Spare parts kit

When seals are damaged due to wear of foreign material, it is necessary to replace them. **Original FASTER® spare parts kit** are available. Detailed instructions are included to achieve the correct replacement of damaged parts.
 No special tools are required to carry out replacement.
 Do not use sharpened tools to change the seals that could damage the new seals of the coupling itself.
A tool kit to replace the seals is available with code KIT UT2PO.

Series	Size		Spare part kit	
			Male coupling Standard seals	Female coupling Standard seals
3FFV38	3/8"	06	KIT 3FFV38 M	KIT 3FFV38 F
3FFV12	1/2"	08	KIT 3FFV12 M	KIT 3FFV12 F
3FFV34	3/4"	12	KIT 3FFV34 M	KIT 3FFV34 F
3FFV1	1"	16	KIT 3FFV1 M	KIT 3FFV1 FS
3FFV112	1 1/2"	24	KIT 3FFV112 M	KIT 3FFV112 FS



Male coupling



Female coupling

PRO

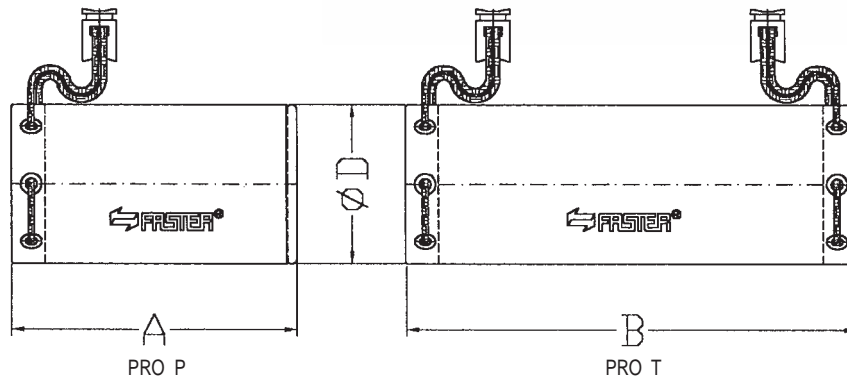
Protective covers

FASTER® protective covers have been especially designed in order to protect quick-release couplings from dirt contamination and atmospheric agents. The new special **PRO T** protection completely covers the coupling when the environment is particularly dusty or weather conditions can damage some components.

When the coupling is disconnected it is possible to glide the **PRO T** cover along the hose and protect only one part simply by closing the cover with the special string. The **PRO P** cover is used to protect the single parts of the disconnected coupling,

PRO series

Partial protection	A [mm.]	Size	Ø D [mm.]	Total protection	B [mm.]
PRO P 48	100	06	48	PRO T 48	200
PRO P 58	115	08	58	PRO T 58	235
PRO P 68	135	12	68	PRO T 68	270
PRO P 86	155	16	86	PRO T 86	305
PRO P 105	175	24	105	PRO T 105	340



Aluminium protection

Series	Size		Cap for male	Plug for female
3FFV 38	06	3/8"	TF 3FV 38 S	TM 3FV 38 S
3FFV 12	08	1/2"	TF 3FV 12 S	TM 3FV 12 S
3FFV 34	12	3/4"	TF 3FV 34 S	TM 3FV 34 S
3FFV 1	16	1"	TF 3FV 1 S	TM 3FV 1 S
3FFV 112	24	1 1/2"	TF 3FV 112 S	TM 3FV 112 S



Flat-face quick-release couplings series

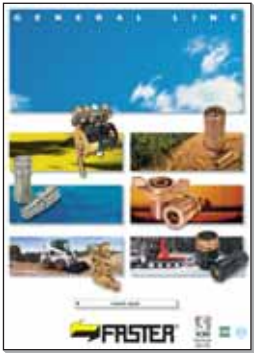
► Applications



► Applications



Ask for our catalogues



CAT. 0110/I Italiano
CAT. 0110/GB English
CAT. 0110/F Français
General Line



CAT. 0111-I Italiano
CAT. 0111-GB English
Multifaster series



CAT. 0112-I Italiano
CAT. 0112-GB English
Agriculture series



CAT. 0113-I Italiano
CAT. 0113-GB English
FF Flat-Face series



CAT. 0114-I Italiano
CAT. 0114-GB English
Screw-on coupling series



CAT. 0115-I Italiano
CAT. 0115-GB English
Standard series



CAT. 0116-I Italiano
CAT. 0116-GB English
CPV-CNV and CVV series



CAT. 0117-I Italiano
CAT. 0117-GB English
DF series

► Guarantee

All **FASTER**® quick-release couplings are designed and produced in conformity with the regulations of **Quality Managing System according to UNI ISO/TS 16949 and UNI EN ISO 9001 Standards.**

They bear the **FASTER**® logo to guarantee their origin and reliability.

FASTER® quick-release couplings are distributed worldwide through a network of highly qualified distributors.



UNI EN ISO 9001
Cert. n° 2905
ISO/TS 16949



CAT. 0118-I Italiano
CAT. 0118-GB English
RF series



CAT. 0119-I Italiano
CAT. 0119-GB English
VU series



CAT. 0120-I Italiano
CAT. 0120-GB English
Industrial series

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