

Screw-on quick-release couplings

►







SCREW-ON QUICK-RELEASE COUPLINGS

Screw-on connection system.

Connection sleeve with flats for screw-wrenching. Screw-on system ensures

Features

- connection under pressure.
- Great resistance to vibrations and pressure peaks. Rolled surfaces in sealing area
- to ensure the lowest roughness. Internal components purposely designed to reduce turbolences
- and consequent pressure drop. Hardened valve bodies to stand
- crashes. Contenitive washer with special seal to reduce the risk of extrusion.
- Reinforced guidevalve with mechanical backstop to prevent partial enclosures of valves due to flow inversion and peaks. NBR seals.
- PTFE backup ring.
- Metal shoulder to protect the O-ring seal on female coupling. Wide range of threads
- and connectors. Ease of maintenance.
- Accessories and spare parts kit
- available with detailed assembling instructions. Similar products:
- CVV series (catalogue n° 0116), 3FFV series (catalogue n° 0113).

- VV seriesDouble function sleeve (Faster patented) for screw
- and balls bearing latching. Interchangeable with NV series male couplings (catalogue nº 0115).

VVS series

- · Purposely dimensioned to stand very high pressures and peaks. Interchangeable with VV
- series couplings. Also available in Brass
- and Stainless Steel.
- FB series
- Flat-face shut-off valves:
- no spillage. Wing-shaped sleeve to help connection by hand and with
- hexagon for screw-wrenching.Interchangeable for the US market.Also available in Steel.

CVE series

- Wing-shaped sleeve to help connection by hand and with
- hexagon for screw-wrenching. Suitable for panel mounting.
- Interchangeable for the European market.

- PVVM series
 Purposely dimensioned to stand very high static pressures.
- Poppet shut-off valve. Interchangeable for US and European market.
- Also available in Stainless Steel.

The screw-on type coupling ensures a positive and firm connection between male and female part. This characteristics is usually found in high peak pressure spikes with hose bendings and vibrations. The screw-on couplings are particularly suitable for all applications with pressure and flow peaks and when it is often necessary to connect and disconnect with residual pressure inside.

Applications



- Great resistance to vibrations, pressure peaks, water-hammers.
 Connection under full
- working pressure. Special seals to stand
- connection under pressure.

VV series

 Interchangeable with NV series male couplings (catalogue n° 0115).

VVS seriesPurposely dimensioned to stand very high pressures and peaks.

- FB seriesFlat-face shut-off valves: no spillage. Interchangeable for the
- US market.

CVE series

Interchangeable for the European market.

- PVVM series
 Purposely dimensioned to stand very high static
- pressures.Interchangeable for US and European market.





 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 contained in this catalogue.

For any further information please contact FASTER® Technical Department.

- 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 that
- Verify that threads in and that their sealing is correct.
 If pecessary replace damage
- 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 seals damage. When couplings are disconnected

When couplings are disconnected, please protect them with **original** FASTER[®] plugs.



- 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.
- to coupling design.
 In case of seals damage it is necessary to replace them by **EACTER**
- FASTER^e 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.

 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.
 They bear the FASTER[®] logo

Guarantee

- 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 an equivalent competitor's type please check the functionality, the sealing and the resistance to working pressure before using the coupling.
 FASTER cannot 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.



- 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 maintened 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.

How to order

- See available item codes in the ordering chart.
- As a further help in defining and selecting the most suitable product for the 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.



NOVELTIES IN THIS CATALOGUE

· Zinc plating with Cr III passivation on the whole range



UNI EN ISO 9001 Cert. nº 2905 ISO/TS 16949 150







Screw-on couplings







THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) It can be easily connected with both VV series male part and with standard NV series male part.
- 2) Connection can be done with one or both parts under pressure by using a spanner.
- 3) A wide contact area between the two parts ensures high resistance to cyclic pressure.
- 4) High seal resistance even to hose bendings.
- 5) Extremely compact if compared to the performances.
- 6) VV series couplings can be designed in anodized aluminium with latching balls and springs made of stainless steel.
- 7) VV series can be designed with metal to metal sealing in order to stand very high flowrates.



Features

- · Connection system: screw-on
- · Disconnection system: screw-on
- · Shut-off system: poppet valve
- · Connectability: both male and female couplings under pressure
- Disconnection under pressure: allowed
- Interchangeability: according to Faster internal standard
- · Screw-on latching system
- · Reinforced guidevalve with mechanical backstop
- Double function sleeve patented:
- for screw and balls bearing latching
- Interchangeable with NV series male couplings (catalogue n° 0115)



Patent applications pending

Accessories and spare part kit

See at pages 26-27

Technical data

Size	D	N	Rat	ted	Max.	work.		N	linimum bu	rst pressur	e		Fluid
*	diam	neter	flo	W	pres	sure	Conn	ected	Ma	ale	Fen	nale	spillage
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
1/4" 04	5,5	0.22	18	4,8	35	5075	150	21750	140	20300	170	24650	1,5
3/8" 06	9,8	0.38	30	7,9	30	4350	150	21750	120	17400	120	17400	2
1/2" 08	10,5	0.41	45	12	30	4350	160	23200	120	17400	130	18850	3
3/4" 12	13,7	0.54	90	24	25	3625	120	17400	100	14500	100	14500	10
1" 16	15,6	0.61	140	37	23	3335	100	14500	90	13050	98	14210	15

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

Pressure drop graph: Test bench to IS0 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials:

- Female in steel

Female in steel
Male in steel
Steel hardened valve
Surface treatment: zinc plating with Cr III passivation
Springs in C98 steel
Seals: Standard in oilproof NBR (Nitrile Rubber).
On request: Viton, Neoprene, EPDM or other seals.
Antiextrusion rings: In pure PTFE.
Working temperatures:
With standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F).
For temperature exceeding these values, the quick-release coupling will be supplied with all components in steel together with the appropriate seals. with the appropriate seals.



Available items







	*	Female	Male A	Male B	ØA	Standards	mm	B Linc	(C Linc	C	1 Linc	ا mm	- inc	L	1 inc	C	H	Sleeve	Cł	HD Linc
	04	VV14GAS F VV14NPT F * VV14-14SAE F	VV14GAS M VV14NPT M * VV14-14SAE M	NV14GAS M NV14NPT M	1/4" BSP 1/4" NPTF 7/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	50	1.97	33	1.3	33	1.3	66	2.6	66	2.6	19	0.75	1" - 12 UNF	27	1.06
	06	VV38GAS F VV38NPT F VV38-38SAE F	VV38GAS M VV38NPT M VV38-38SAE M	NV38GAS M NV38NPT M	3/8" BSP 3/8" NPTF 9/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	59.5	2.34	39	1.53	40.5	1.59	78	3.07	79.5	3.13	24	0.94	1'//" - 8 UN	34	1.34
₩ IFASTER.	08	VV12GAS F VV12NPT F * VV12-12SAE F	VV12GAS M VV12NPT M * VV12-12SAE M	NV12GAS M NV12NPT M NV34UNF M	1/2" BSP 1/2" NPTF 3/4" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	66	2.6	44	1.73	49	1.93	88	3.46	93	3.66	27	1.06	1³/₅" - 8 UN	38	1.5
	12	VV34GAS F VV34NPT F * VV34-34SAE F	VV34GAS M VV34NPT M * VV34-34SAE M	NV34GAS M NV34NPT M	3/4" BSP 3/4" NPTF 1-1/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	84	3.3	55	2.16	62	2.44	110	4.33	117	4.6	34	1.34	1º/4" - 6 UN	50	1.97
	16	VV1GAS F VV1NPT F * VV1-1SAE F	VV1GAS M VV1NPT M * VV1-1SAE M	NV1GAS M NV1NPT M	1" BSP 1" NPTF 1-5/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	99.5	3.92	66	2.6	70	2.75	132	5.19	136	5.35	41	1.6	M52X4	55	2.16

Size GAS = BSP *On request





Screw-on couplings for very high pressure







THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) Purposely dimensioned for heavy duty applications.
- 2) Extremely resistant to cyclic pressures.
- 3) The screw-on connection allows connection with one or both parts under pressure by using a spanner.
- 4) High seal resistance even to hose bendings.
- 5) Interchangeable with VV series couplings.



Features

- · Connection system: screw-on
- · Disconnection system: screw-on
- · Shut-off system: poppet valve
- · Connectability: both male and female couplings under pressure
- Disconnection under pressure: allowed
- · Interchangeability: according to Faster internal standard
- · Purposely dimensioned to stand very high pressures and peaks
- Screw-on latching system
- · Reinforced guidevalve with mechanical backstop
- · Also available in Brass and Stainless Steel
- Interchangeable with VV series couplings

STEEL

Pressure drop graph: Test bench to ISO 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials:

- Female in steel
- Male in steel
- Steel hardened valve
- Surface treatment: zinc plating with Cr III passivation Springs in C98 steel Seals: Standard in oilproof NBR (Nitrile Rubber). On request: Viton, Neoprene, EPDM or other seals.

Antiextrusion rings: In pure PTFE. Working temperatures:

Working temperatures: With standard seals in NBR (Nitrile Rubber) from -25° C (-13° F) to $+125^{\circ}$ C ($+257^{\circ}$ F). For temperature exceeding these values, the quick-release coupling will be supplied with all components in steel together with the appropriate seals.

STAINLESS STEEL

Pressure drop graph: Test bench to ISO 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials: - Male and female in AISI 316 - Springs, valves and valve guides in AISI 316 Seals:

Standard in NBR (Nitrile Rubber), Shore hardness 85. On request: Viton, Neoprene, EPDM seals. Antiextrusion rings: Working temperatures: Working temperatures: With standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F).

BRASS

Pressure drop graph: Test bench to ISO 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials: - Male, female, valves and valve guides in brass - Springs in AISI 316 Seals:

Standard in NBR (Nitrile Rubber), Shore hardness 85. On request: Viton, Neoprene, EPDM seals. Antiextrusion rings: In pure PTFE.

Working temperatures:

With standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F).

Accessories and spare part kit

See at pages 26-27



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



Series V



	*	Female	Male	ØA	Standards	1	3	(2	Sleeve	Ø	D		L.	Cł	HF	CH	IM	CH	IG
	*			U A		mm	inc.	mm	inc.	0.0010	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	04	VVS14GAS F VVS14NPT F *VVS14SAE F	VVS14GAS M VVS14NPT M *VVS14SAE M	1/4" BSP 1/4" NPTF 7/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	58	2.28	43	1.69	1" - 12 UNF	30	1.18	84	3.31	22	0.87	25	0.98	27	1.06
	06	VVS38GAS F VVS38NPT F *VVS38SAE F	VVS38GAS M VVS38NPT M *VVS38SAE M	3/8" BSP 3/8" NPTF 9/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	62	2.44	48	1.89	11/4" - 8 UN	40	1.57	89.5	3.52	30	1.18	32	1.25	36	1.42
	08	VVS12GAS F VVS12NPT F *VVS12SAE F	VVS12GAS M VVS12NPT M *VVS12SAE M	1/2" BSP 1/2" NPTF 3/4" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	71	2.79	53	2.08	1³/8" - 8 UN	45	1.77	102	4.02	34	1.34	34	1.34	41	1.61
	12	VVS34GAS F VVS34NPT F *VVS34SAE F	VVS34GAS M VVS34NPT M *VVS34SAE M	3/4" BSP 3/4" NPTF 1-1/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	87	3.42	63	2.48	1³/4" - 6 UN	55	2.16	121	4.76	41	1.61	46	1.81	50	1.97
ASTER	16	VVS1GAS F VVS1NPT F *VVS1SAE F	VVS1GAS M VVS1NPT M *VVS1SAE M	1" BSP 1" NPTF 1-5/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	100	3.94	72	2.83	M52 X 4	60	2.36	138.5	5.45	50	1.97	50	1.97	55	2.16
	20	VVS114GAS F VVS114NPT F *VVS114SAE F	VVS114GAS M VVS114NPT M *VVS114SAE M	1-1/4" BSP 1-1/4" NPTF 1-5/8" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	123	4.84	86	3.38	M68 X 6	80	3.15	167	6.57	65	2.56	65	2.56	75	2.95
	24	VVS112GAS F VVS112NPT F *VVS112SAE F	VVS112GAS M VVS112NPT M *VVS112SAE M	1-1/2" BSP 1-1/2" NPTF 1-7/8" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	137	5.39	95	3.74	M78 X 6	98	3.86	187.5	7.38	75	2.95	80	3.15	90	3.54
	32	VVS2GAS F VVS2NPT F *VVS2SAE F	VVS2GAS M VVS2NPT M *VVS2SAE M	2" BSP 2" NPTF 2-1/2" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	160	6.30	118	4.65	M115 X 8	129	5.08	227	8.94	100	3.94	110	4.33	125	4.92

Size GAS = BSP *On request

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

Technical data

Size	D	Ņ	Rat	ed	Max.	work.		N	linimum bu	rst pressur	e		Fluid
*	diam	neter	flo	W	pres	sure	Conn	ected	Ma	ale	Fen	nale	spillage
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
1/4" 04	4,5	0.18	8	2,1	80	11600	250	36250	240	34800	240	34800	1
3/8" 06	5,5	0.22	18	4,8	76	11020	230	33350	290	42050	250	36250	1,5
1/2" 08	9,8	0.38	30	7,9	73	10585	220	31900	238	34510	220	31900	2
3/4" 12	10,5	0.41	45	12	70	10150	214	31030	212	30740	230	33350	3
1" 16	13,7	0.54	90	24	53	7685	194	28130	160	23200	224	32480	10
1 ¹ /4" 20	22,8	0.9	140	37	60	8700	200	29000	180	26100	180	26100	15
1 ¹ /2" 24	24,7	0.97	300	79	40	5800	150	21750	120	17400	150	21750	38
2" 32	43,9	1.73	1000	264	35	5075	105	15225	130	18850	130	18850	46



		Fomalo	Mala		Ctandarda	E	3	(0	Clonus	Ø	D	l	L	CH	ΗF	CH	IM	CH	IG
	**	Ternale	IVIAIE	ØA	Standards	mm	inc.	mm	inc.	Sleeve	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	04	VVS14GAS F 2 VVS14NPT F 2 *VVS14SAE F 2	VVS14GAS M 2 VVS14NPT M 2 *VVS14SAE M 2	1/4" BSP 1/4" NPTF 7/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	58	2.28	43	1.69	1" - 12 UNF	30	1.18	84	3.31	22	0.87	25	0.98	27	1.06
	06	VVS38GAS F 2 VVS38NPT F 2 *VVS38SAE F 2	VVS38GAS M 2 VVS38NPT M 2 *VVS38SAE M 2	3/8" BSP 3/8" NPTF 9/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	62	2.44	48	1.89	11/4" - 8 UN	40	1.57	89.5	3.52	30	1.18	32	1.25	36	1.42
	08	VVS12GAS F 2 VVS12NPT F 2 *VVS12SAE F 2	VVS12GAS M 2 VVS12NPT M 2 *VVS12SAE M 2	1/2" BSP 1/2" NPTF 3/4" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	71	2.79	53	2.08	1³/8" - 8 UN	45	1.77	102	4.02	34	1.34	34	1.34	41	1.61
	12	VVS34GAS F 2 VVS34NPT F 2 *VVS34SAE F 2	VVS34GAS M 2 VVS34NPT M 2 *VVS34SAE M 2	3/4" BSP 3/4" NPTF 1-1/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	87	3.42	63	2.48	1³/4" - 6 UN	55	2.16	121	4.76	41	1.61	46	1.81	50	1.97
ASTER	16	VVS1GAS F 2 VVS1NPT F 2 *VVS1SAE F 2	VVS1GAS M 2 VVS1NPT M 2 *VVS1SAE M 2	1" BSP 1" NPTF 1-5/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	100	3.94	72	2.83	M52 X 4	60	2.36	138.5	5.45	50	1.97	50	1.97	55	2.16
	20	VVS114GAS F 2 VVS114NPT F 2 *VVS114SAE F 2	VVS114GAS M 2 VVS114NPT M 2 *VVS114SAE M 2	1-1/4" BSP 1-1/4" NPTF 1-5/8" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	123	4.84	86	3.38	M68 X 6	80	3.15	167	6.57	65	2.56	65	2.56	75	2.95
	24	VVS112GAS F 2 VVS112NPT F 2 *VVS112SAE F 2	VVS112GAS M 2 VVS112NPT M 2 *VVS112SAE M 2	1-1/2" BSP 1-1/2" NPTF 1-7/8" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	137	5.39	95	3.74	M78 X 6	98	3.86	187.5	7.38	75	2.95	80	3.15	90	3.54
	32	VVS2GAS F 2 VVS2NPT F 2 *VVS2SAE F 2	VVS2GAS M 2 VVS2NPT M 2 *VVS2SAE M 2	2" BSP 2" NPTF 2-1/2" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	160	6.30	118	4.65	M115 X 8	129	5.08	227	8.94	100	3.94	110	4.33	125	4.92

Size GAS = BSP *On request

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

Technical data

Size	D	N	Rat	ed	Max.	work.		N	linimum bu	rst pressur	e		Fluid
*	diam	ninal neter	flo	W	pres	sure	Conn	ected	Ma	le	Fen	nale	spillage
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
1/4" 04	4,5	0.18	8	2,1	60	8700	280	40600	180	26100	280	40600	1
3/8" 06	5,5	0.22	18	4,8	65	9425	250	36250	195	28275	200	29000	1,5
1/2" 08	9,8	0.38	30	7,9	60	8700	245	35525	180	26100	195	28275	2
3/4" 12	10,5	0.41	45	12	50	7250	190	27550	150	21750	160	23200	3
1" 16	13,7	0.54	90	24	46	6670	160	23200	150	21750	140	20300	10
1 ¹ /4" 20	22,8	0.9	140	37	38	5510	150	21750	115	16675	120	17400	15
1 ¹ /2" 24	24,7	0.97	300	79	36	5220	155	22475	110	15950	140	20300	38
2" 32	43,9	1.73	1000	264	21	3045	85	12325	65	9425	75	10875	46



	*	Female	Male	a 1	Standarde	l	3	(Ç	Sloovo	Ø	D	l	-	CI	ΗF	CH	IM	CH	HG
	¥	i cinaic	Wate	U A	Stariuarus	mm	inc.	mm	inc.	DIEEVE	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
	04	VVS14GAS F 5 *VVS14NPT F 5 *VVS14SAE F 5	VVS14GAS M 5 *VVS14NPT M 5 *VVS14SAE M 5	1/4" BSP 1/4" NPTF 7/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	58	2.28	43	1.69	1" - 12 UNF	30	1.18	84	3.31	22	0.87	25	0.98	27	1.06
	06	*VVS38GAS F 5 *VVS38NPT F 5 *VVS38SAE F 5	*VVS38GAS M 5 *VVS38NPT M 5 *VVS38SAE M 5	3/8" BSP 3/8" NPTF 9/16" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	62	2.44	48	1.89	1¹/4" - 8 UN	40	1.57	89.5	3.52	30	1.18	32	1.25	36	1.42
	08	*VVS12GAS F 5 *VVS12NPT F 5 *VVS12SAE F 5	*VVS12GAS M 5 *VVS12NPT M 5 *VVS12SAE M 5	1/2" BSP 1/2" NPTF 3/4" UNF	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	71	2.79	53	2.08	1³/ଃ" - 8 UN	45	1.77	102	4.02	34	1.34	34	1.34	41	1.61
	12	*VVS34GAS F 5 *VVS34NPT F 5 *VVS34SAE F 5	*VVS34GAS M 5 *VVS34NPT M 5 *VVS34SAE M 5	3/4" BSP 3/4" NPTF 1-1/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	87	3.42	63	2.48	1³/4" - 6 UN	55	2.16	121	4.76	41	1.61	46	1.81	50	1.97
FASTER	16	*VVS1GAS F 5 *VVS1NPT F 5 *VVS1SAE F 5	*VVS1GAS M 5 *VVS1NPT M 5 *VVS1SAE M 5	1" BSP 1" NPTF 1-5/16" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	100	3.94	72	2.83	M52 X 4	60	2.36	138.5	5.45	50	1.97	50	1.97	55	2.16
	20	*VVS114GAS F 5 *VVS114NPT F 5 *VVS114SAE F 5	*VVS114GAS M 5 *VVS114NPT M 5 *VVS114SAE M 5	1-1/4" BSP 1-1/4" NPTF 1-5/8" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	123	4.84	86	3.38	M68 X 6	80	3.15	167	6.57	65	2.56	65	2.56	75	2.95
	24	*VVS112GAS F 5 *VVS112NPT F 5 *VVS112SAE F 5	*VVS112GAS M 5 *VVS112NPT M 5 *VVS112SAE M 5	1-1/2" BSP 1-1/2" NPTF 1-7/8" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	137	5.39	95	3.74	M78 X 6	98	3.86	187.5	7.38	75	2.95	80	3.15	90	3.54
	32	*VVS2GAS F 5 *VVS2NPT F 5 *VVS2SAE F 5	* VVS2GAS M 5 * VVS2NPT M 5 * VVS2SAE M 5	2" BSP 2" NPTF 2-1/2" UN	DIN 3852-2-X ANSI B1.20.3 SAE J1926-1	160	6.30	118	4.65	M115 X 8	129	5.08	227	8.94	100	3.94	110	4.33	125	4.92

Size GAS = BSP *On request

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

Technical data

Size	D	Ņ	Rat	ed	Max.	work.		N	linimum bu	rst pressur	e		Fluid
*	diam	neter	flo	W	pres	sure	Conne	ected	Ma	ale	Fen	nale	spillage
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
1/4" 04	4,5	0.18	8	2,1	43	6235	150	21750	130	18850	135	19575	1
3/8" 06	5,5	0.22	18	4,8	36	5220	140	20300	110	15950	120	17400	1,5
1/2" 08	9,8	0.38	30	7,9	30	4350	110	15950	90	13050	95	13775	2
3/4" 12	10,5	0.41	45	12	28	4060	110	15950	85	12325	90	13050	3
1" 16	13,7	0.54	90	24	25	3625	85	12325	75	10875	75	10875	10
1 1/4" 20	22,8	0.9	140	37	18	2610	70	10150	55	7975	58	8410	15
1 ¹ /2" 24	24,7	0.97	300	79	20	2900	65	9425	60	8700	60	8700	38
2" 32	43,9	1.73	1000	264	13	1885	50	7250	40	5800	45	6525	46





Screw-on couplings with wing-shaped sleeve for US market







THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) Flat-face valves to eliminate oil spillage during connection and disconnection.
- 2) Wing-shaped sleeve to help manual connection.
- 3) A part of the sleeve is hexagon shaped in order to connect or disconnect under pressure by using a spanner.
- 4) It is possible to fit the male coupling by bulk head mounting to make the connection easier.
- 5) A device indicates when connection is completely achieved in order to ensure maximum flow rate.



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: US market
- · Screw-on latching system
- Wing-shaped sleeve to help connection by hand
- · Hexagon for screw-wrenching
- · A device indicates when connection is fully achieved
- Available in Brass
- · Steel version available on request
- Interchangeable for US market





Accessories and spare part kit

See at pages 26-27

Pressure drop graph: Test bench to ISO 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials:

- Steel version:
- Female and male part in steel zinced with Cr III passivation
 Sleeve in brass
- Springs C98 Brass version:
- Sleeve and male part in brass
- Steel valves
- Springs C98

Antiextrusion rings: In pure PTFE. Seals: Seals: Standard in oilproof NBR (Nitrile Rubber). On request: Viton, Neoprene, EPDM or other seals. Working temperatures: With standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F). For temperature exceeding these values, the quick-release coupling will be supplied with the appropriate seals.



Available items



Steel





	*	Female	Male	Ø 1	Standards	E	3	()	[)	L	<u>_</u>	Sleeve	CH	IG	С	Н	CI	ΗF	CH	IM
	×	Temale	Wate	ØA	Stanuarus	mm	inc.	mm	inc.	mm	inc.	mm	inc.	Oleeve	mm	inc.	mm	inc.	mm	inc.	mm	inc.
777777	12	*FB12/34NPT F	*FB12/34NPT M	3/4" NPTF	ANSI B1.20.3	81	3.19	82	3.23	90	3.54	139	5.47	1 1/2 - 12 UNF	46	1.81	41	1.61	30	1.18	34	1.34
	16	*FB16/1NPT F	*FB16/1NPT M	1" NPTF	ANSI B1.20.3	91	3.58	89	3.50	100	3.94	149	5.87	1 % - 12 UN	55	2.16	48	1.90	36	1.42	40	1.57
FASTE	20	*FB20/114NPT F	*FB20/114NPT M	1-1/4" NPTF	ANSI B1.20.3	95	3.74	97	3.82	127	5	157	6.18	2 1/8 - 12 UN	65	2.56	54	2.12	45	1.77	48	1.89
₽	24	*FB24/112NPT F	*FB24/112NPT M	1-1/2" NPTF	ANSI B1.20.3	110	4.33	110	4.33	150	5.90	178	7	2 1/2 - 12 UN	75	2.95	65	2.56	50	1.97	55	2.16

Size GAS = BSP *On request

Technical data

Size	D	Ņ	Rat	ed	Max.	work.		М	inimum bu	rst pressur	e		Fluid
*	diam	neter	flo	W	pres	sure	Conne	ected	Ma	le	Fem	nale	spillage
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
3/4" 12	14,9	0.59	62	16,5	25	3625	82	11890	100	14500	75	10875	0,15
1" 16	19,3	0.76	160	42	23	3335	80	11600	130	18850	70	10150	0,2
1 1/4" 20	23,8	0.94	220	58	21	3045	68	9860	78	11310	64	9280	0,5
1 ¹ /2" 24	28,5	1.12	300	79	20	2900	62	8990	60	8700	60	8700	0,7

*Safety factor = 1:3 - for static pressure safety factor 1:2

	► Availa Series	able	• items				B -				C	- CH		CHM							
E	Brass					F	emale														
		*	Female	Male	ØA	Standards	l mm	B inc.	mm	C inc.	[mm) inc.	mm	L inc.	Sleeve	Cł mm	HG inc.	C mm	H inc.	Cł mm	HF inc.
-	77777	12	FB12/34NPT F5	FB12/34NPT M5	3/4" NPTF	ANSI B1.20.3	81	3.19	82	3.23	90	3.54	139	5.47	1 1/2 - 12 UNF	46	1.81	41	1.61	30	1.18
1		16	FB16/1NPT F5	FB16/1NPT M5	1" NPTF	ANSI B1.20.3	91	3.58	89	3.50	100	3.94	149	5.87	1 ⁷ /8 - 12 UN	55	2.16	48	1.90	36	1.42
	FASTE	20	FB20/114NPT F5	FB20/114NPT M5	1-1/4" NPTF	ANSI B1.20.3	95	3.74	97	3.82	127	5	157	6.18	2 1/8 - 12 UN	65	2.56	54	2.12	45	1.77
-	P	24	FB24/112NPT F5	FB24/112NPT M5	1-1/2" NPTF	ANSI B1.20.3	110	4.33	110	4.33	150	5.90	178	7	2 1/2 - 12 UN	75	2.95	65	2.56	50	1.97

Size GAS = BSP *On request

Technical data

Size	D	N	Rat	ted	Max.	work.		N	linimum bu	rst pressur	e		Fluid
*	dian	ninai neter	flo	W	pres	sure	Conne	ected	Ma	ale	Fen	nale	spillage
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
3/4" 12	14,9	0.59	62	16,5	25	3625	82	11890	100	14500	75	10875	0,15
1" 16	19,3	0.76	160	42	23	3335	80	11600	130	18850	70	10150	0,2
1 ¹ / ₄ " 20	23,8	0.94	220	58	21	3045	68	9860	78	11310	64	9280	0,5
1 ¹ /2" 24	28,5	1.12	300	79	20	2900	62	8990	60	8700	60	8700	0,7

*Safety factor = 1:3 - for static pressure safety factor 1:2

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

CHM

mm inc.

34 1.34

40 1.57

48 1.89

55 2.16



Series CVE

Screw-on couplings with wing-shaped sleeve for the European market







THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) Wing-shaped sleeve with hexagon to help manual connection.
- 2) It is possible to fit the female part on a bulk head mounting.
- 3) Hydrodynamic internal components to reach the highest flowrates with minimum pressure drop.



Features ►

- · Connection system: screw-on
- · Disconnection system: screw-on
- · Shut-off system: poppet valve
- Connectability: both male and female couplings under residual pressure • Disconnection under pressure: allowed
- Interchangeability: European market
- · Screw-on latching system
- · Guidevalve with mechanical backstop
- · Wing-shaped sleeve to help connection by hand
- Hexagon for screw wrenching
- A device indicates when connection is fully achieved
- Versions with reinforced components to stand connection under high pressures and for heavy duty applications Suitable for panel mounting
- Interchangeable for the European market





Accessories and spare part kit

See at pages 26-27

Pressure drop graph: Test bench to ISO 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials:

- In steel zinced with Cr III passivation
- Sleeve in brass
 Springs C 98
- Seals:

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

With standard seals in NBR (Nitrile Rubber) from -25° C (-13° F) to $+125^{\circ}$ C ($+257^{\circ}$ F). For temperature exceeding these values, the quick-release couplings will be supplied with all components in steel together with the appropriate seals.



Available items

VE

Series





		Fomalo	Male	~ •	Standards (7 E		Ctandarda		3	(2	[)	L		CHF		CHD		CHG		Sloovo	CH	IM
	*	Ternale	Iviaic	ØA	Standards	ØE	Standards	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	Sieeve	mm	inc.
	12	CVE 34 GAS F	CVE 34 GAS M	3/4" BSP	DIN 3852-2-X	1-1/4" BSP	DIN 3852-2-E	78	3.07	83.3	3.28	100	3.94	132.5	5.21	46	1.81	50	1.97	55	2.16	1 ¾ - 10 (55°)	34	1.34
FASTER.	16	CVE 1 GAS F	CVE 1 GAS M	1" BSP	DIN 3852-2-X	1-1/4" BSP	DIN 3852-2-E	85	3.35	94.2	3.7	127	5	149	5.87	46	1.81	50	1.97	65	2.56	2 ¼ - 10 (55°)	41	1.61

Size GAS = BSP







Screw-on couplings for heavy duty service







THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) Very high resistance to static pressures.
- 2) Connection and disconnection operations can be performed under pressure.
- 3) Maximum flow rate is ensured even in case of a light unscrewing of the sleeve.
- 4) Perfect interchangeability with similar couplings even if equipped with a ball valve.
- 5) Safety factor 1:3, also when the coupling is diconnected.
- 6) Wide range of male and female BSP-NPT and Metric threads.
- 7) AISI 316 stainless steel couplings available on request.



Features ►

- · Connection system: screw-on
- · Disconnection system: screw-on
- Shut-off system: poppet valve
- Connectability: both male and female couplings under pressure
- Disconnection under pressure: allowed
- Interchangeability: European and US market
- · Screw-on latching system
- · Dimensioned to stand very high static pressures
- · Metal to metal sealing
- On request also available in Stainless Steel

Accessories and spare part kit

• Interchangeable for US and European market



Series



Steel

Stainless steel

See at pages 26-27

Technical	data

Size	D	N	Rat	ted	Max.	work.	Minimum burst pressure							
*	dian	neter	flo	W	pressure *		Conn	ected	Ma	ale	Fen	spillage		
	mm	inc	l/min.	GPM	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.	
1/4" 04	4,1	0.16	15	4	105	15225	350	50750	310	44950	330	47850	0,5	
3/8" 06	5,5	0.22	20	5,3	100	14500	350	50750	290	42050	300	43500	1	

*Safety factor = 1:3 - for static pressure safety factor 1:2

Pressure drop graph: Test bench to ISO 7241-2 specifications with oil viscosity 20 cSt (3°E), temperature 50°C (122°F). Materials:

- Steel zinced with Cr III passivation
- Steel hardened valves
 Springs C 98
- Seals:

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

In pure PTFE.

In pure PTFE. Working temperatures: With standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F). For temperature exceeding these values, the quick-release coupling will be supplied with all components in steel together with the components in steel together with the appropriate seals.



Available items







	*	Female	Male	ØA	Standards	E	3	(2	Sleeve	Ø	D	l	-	CI	IF	CH	IM
	¥			1/4" NPTE	ANSI B1 20 3	mm	inc.	mm 34	inc.	0.0010	mm	inc.	mm	inc.	mm	inc.	27	inc.
FASTER	04																	
	06		PVVM38NPT M	3/8" NPTF	ANSI B1.20.3			39	1.53								32	1.26
	04	PVVM1/14NPT F * PVVM1/14GAS F	* PVVM1/14NPT M * PVVM1/14GAS M	1/4" NPTF 1/4" BSP	ANSI B1.20.3 DIN 3863	62.8 62.8	2.47 2.47	55 55	2.16 2.16	1" - 18 UN 1" - 18 UN	30 30	1.18 1.18	98.8 98.8	3.89 3.89	21 21	0.83	27 27	1.06
	06	PVVM38-1/14NPT F * PVVM38-1/14GAS F PVVM1/38NPT F PVVM1/38GAS F	* PVVM38-1/14NPT M * PVVM38-1/14GAS M * PVVM1/38NPT M * PVVM1/38GAS M	1/4" NPTF 1/4" BSP 3/8" NPTF 3/8" BSP	ANSI B1.20.3 DIN 3863 ANSI B1.20.3 DIN 3863	83.3 82.3 83.3 83.3	3.28 3.24 3.28 3.28	64.8 64.8 64.8 64.8	2.55 2.55 2.55 2.55	1 3/16" - 16 UN 1 3/16" - 16 UN 1 3/16" - 16 UN 1 3/16" - 16 UN 1 3/16" - 16 UN	36 36 36 36	1.42 1.42 1.42 1.42	122.7 122.7 122.7 122.7	4.83 4.83 4.83 4.83	25 25 25 25	0.98 0.98 0.98 0.98	32 32 32 32	1.26 1.26 1.26 1.26
Marra 1	04	* PVVM14-23/14G F	* PVVM14-23/14G M	1/4" BSP	DIN 3852-2-B	66.5	2.62	55	2.16	1" - 18 UN	30	1.18	102.5	4.03	21	0.83	27	1.06
A STREET	06	PVVM38-23/14G F	PVVM38-23/14G M	1/4" BSP	DIN 3852-2-B	82.3	3.24	63.8	2.51	1 3/16" - 16 UN	36	1.42	120.7	4.75	25	0.98	32	1.26

Size GAS = BSP *On request



Dust protections

To provide dust protection for couplings - once disconnected - we recommend the use of screw-on

plugs and caps. They are equipped with metal chain or PVC cord to be linked to hoses or machine.

►





F	Protections for female part	t				
Aluminium plugs with chain	Aluminium plugs with coloured cord in PVC	AISI 316 stainless steel plugs				
TMV14 S		TFV14 SS				
TMV38 S	TMVM38 SB TMVM38 SG TMVM38 SN TMVM38 SN TMVM38 SR TMVM38 SV	TMV38 SS				
TMV12 S	TMVM12 SB TMVM12 SG TMVM12 SN TMVM12 SN TMVM12 SR	*TMV12 SS				
TMV34 S		*TMV34 SS				
TMV1 S		*TMV1 SS				
TMV114 S		*TMV114 SS				
TMV112 S		*TMV112 SS				
TMV2 S		* TMV2 SS				



FB series Size Dust plugs for female part Series Dust caps for male part Aluminium Brass Aluminium Brass 3/4 12 TFFB12 S * TFFB12 5 TMFB12 S * TMFB12 5 TFFB16 S * TFFB16 5 TMFB16 S * TMFB16 5 1' 16 FB * TFFB20 5 TMFB20 S * TMFB20 5 1 1/4" 20 TFFB20 S 1 1/2" 24 * TFFB24 S * TFFB24 5 * TMFB24 S * TMFB24 5



TMFB20 S series

TFFB20 S series

►	CVE s	eries							
Series	Siz	e	Dust plug	Dust cap					
			Aluminium	Aluminium					
	3/4" 12		TM CVE34 S	TF CVE34 S					
CVE	1"	16	TM CVE1 S	TF CVE1 S					

► I	PVVM series										
Series	Siz	e	Dust caps for male part	Dust plugs for female part							
			Aluminium	Aluminium							
	1/4"	04	TFP 14	TMP 14							
PVVM	3/8"	06	TFP 38	TMP 38							



► Spare parts kit

Sorios

Sizo

When seals are damaged due to wear of foreign material, it is necessary to replace them. **Original FASTER® spare parts kits** are now 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.

001100	0120		The obdo
	1/4"	04	KIT VV14
	3/8"	06	KIT VV38
vv	1/2"	08	KIT VV12
	3/4"	12	KIT VV34
	1"	16	KIT VV1
	1/4"	04	KIT VVS14
	3/8"	06	KIT VVS38
	1/2"	08	KIT VVS12
	3/4"	12	KIT VVS34
VVS	1"	16	KIT VVS1
	1 1/4"	20	KIT VVS114
	1 1/2"	24	KIT VVS112
	2"	32	KIT VVS2
	3/4"	12	KIT FB12
	1"	16	KIT FB16
FB	1 1/4"	20	KIT FB20
	1 1/2"	24	KIT FB24
	0/4"	10	
CVF	3/4″	12	KIT CVE34
OVE	1"	16	KIT CVE1
	1/4"	04	KIT PVV14
PVVM	3/8"	06	KIT PVV38

Kit code

ACCESSORIES







Screw-on couplings CVV series



► THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) The wide range of BSP, METRIC, NPT, SAE threads allows customer to fit the product to its needs, saving extra-cost for adaptors.
- 2) The valves are manufactured following the classic **FASTER**[®] method:
- induction hardened to avoid dents, equipped with special profiled anti-extrusion seal.
- 3) Special design of internal components minimizes pressure drops.
- 4) Couplings with internal components completely made of steel and with Viton seals are available on request.
- 5) Threaded sleeve with friction ring.

For further information and technical details please ask for the specific catalogue: CPV-CNV and CVV series nº 0116.





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



► THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLINGS

- 1) Connectable with male and female parts under maximum working pressure.
- 2) No leakage at low pressure when connected or disconnected.
- 3) Flat-face design to avoid dirt contamination.
- 4) Completely covered threads to avoid accidental damage.
- 5) FPQ FASTER® Premier Quality high protection against corrosion.
- 6) Soft Nylon protective covers (PRO Series) and aluminium protections are available to ensure a higher resistance to atmosferic agents.

For further information and technical details please ask for the specific catalogue: Flat-Face series nº 0113.



Screw-on quick-release couplings

Applications

















Series

Ask for our catalogues



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



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



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



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



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



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



□ I - FASTER S.p.A. I-26027 RIVOLTA D'ADDA (CR) Italy - Via L. Ariosto, 7 ☎ (+39) 0363.377211 - Fax (+39) 0363.377333 www.faster.it - faster@faster.it

5 FRSTER =

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



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



CAT. 0120-GB English Industrial series

francois.divet@wanadoo.fr





Cert. n° 2905 ISO/TS 16949





CAT 0114/09/06-GB

USA - FASTER Inc. MAUMEE, OH 43537-9505 - 6560 Weatherfield, Ct. **2** (+1) 419-868-8197 - (+1) 800-231-2501 - Fax (+1) 419-868-8360 www.fasterinc.com - eng@fasterinc.com

UK - FASTER - Richard Bennett

faster.uk@virgin.net



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



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



All FASTER® quick-release couplings are designed and 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.

