CAT. 0115-GB

Standard series

▶ Quick-release couplings “Standard” series

FASTER®

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

CISQ

▶ Quick-release couplings “Standard” series

Standard series

▶ Features

- ANV and HNV series couplings are interchangeable according to ISO 7241-1 standard.
- Connection and disconnection by pulling back the sleeve.
- Great number of latching balls.
- Internal components purposely designed to reduce turbolences and consequent pressure drop.
- Rolled surfaces in sealing area to ensure the lowest roughness.
- Hardened valve bodies to stand crashes.
- Contenitive washer with special seal to reduce the risk of extrusion.
- Guidevalve with mechanical backstop to achieve a perfect interchangeability between ball and poppet valved couplings.
- Parts subject to loads and wear are hardened by heat treatment.
- Carbonitrited sleeve on female couplings.
- Balls racing area on the male coupling induction hardened.
- Seals in NBR (nitrile rubber).
- PTFE back-up rings.
- Metal shoulder to protect the O-ring seal on female coupling.
- Wide range of threads and connections.
- Accessories and spare parts kit available with detailed assembling instructions.

▶ Applications

- “Standard” series couplings are the most commonly used.
- Specifically designed for agricultural and industrial applications.
- Conformity to ISO 7241 standard ensures the worldwide interchangeability.

▶ Benefits

- Interchangeable according to ISO 7241-1 standard (ANV and HNV series).
- Available with a wide range of threads: BSP, NPT, SAE and metric.
- Increased number of latching balls to prevent brinelling.
- Internal components purposely designed to reduce turbolences and consequent pressure drop.
- Also available versions in AISI 316 stainless steel and brass supplied with the suitable seals.
- Accessories and spare parts kit available with detailed assembling instructions.

▶ Recommendations

- **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 Research & Development.**
- 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 their sealing is correct.
- 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, please protect them with **original FASTER® plugs.**

Attention!

- When connecting and disconnecting, be sure there is no pressure in both halves.
- When a disconnection is performed, there could be a **residual pressure** that depending on temperature and position could reach high values.
  This prevents opening the valve and, as a consequence, the connection is not possible.
- **Avoid forcing the coupling valve to decrease residual pressure.**
- **Do not use any sharpened tool which could damage the seals when opening the valves.**
- In case it is not possible to decrease pressure, use a quick-release coupling specifically designed to stand connection and disconnection under pressure or the specific decompression valve VDM series (see at page 31).

Responsibilities

- 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.

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.**
- 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.

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.**

NEW

NOVELTIES IN THIS CATALOGUE

- Zinc plating with Cr III passivation on the whole range

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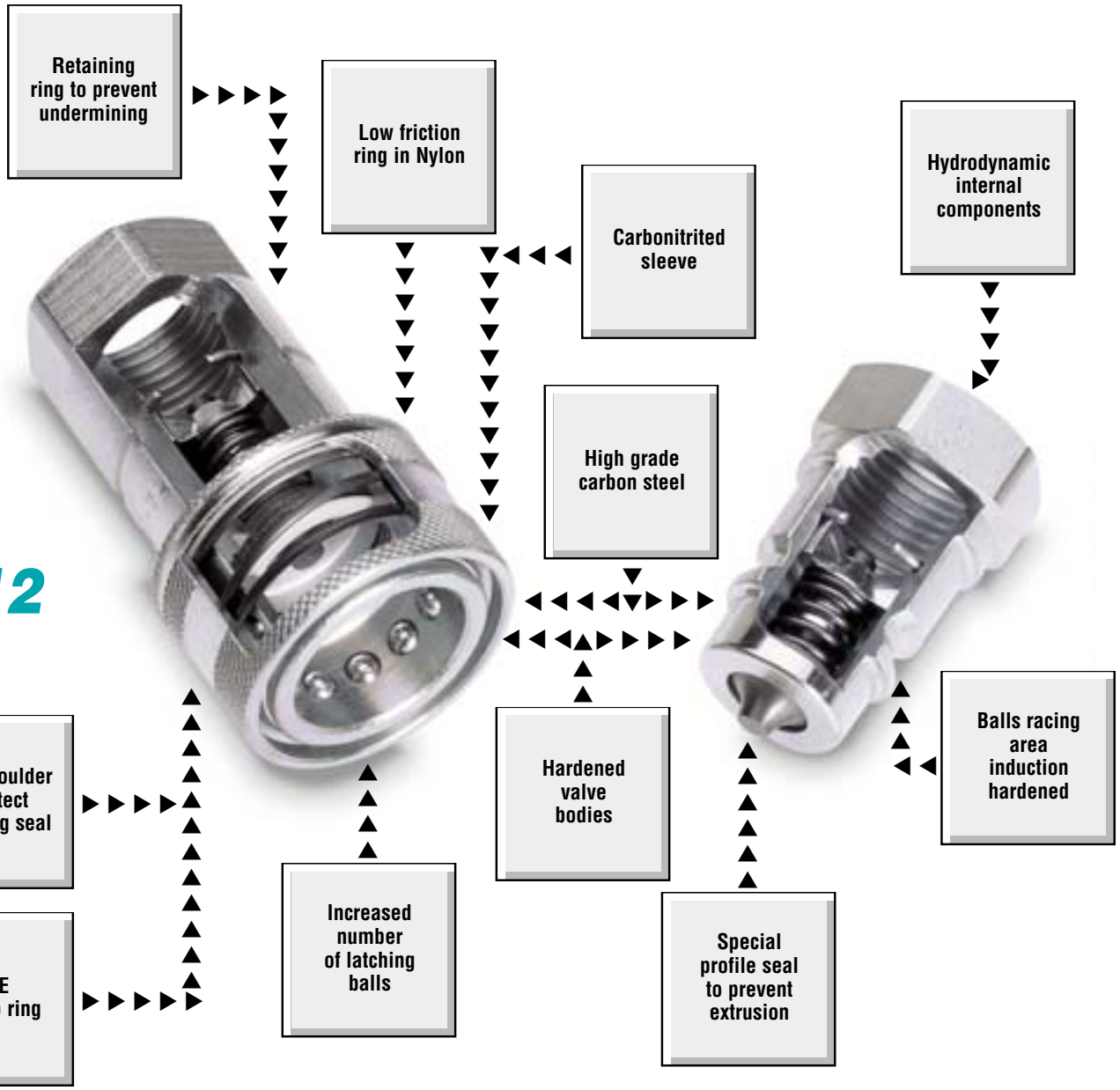
Quick-release couplings “Standard” series

In the picture

Series

NV12



THE NEW REVOLUTIONARY WAY OF THE QUICK-RELEASE COUPLING

1) Worldwide interchangeability according to ISO 7241-1 standards.
2) Stressed components are hardened in order to ensure the maximum service life to the coupling.
3) Increased number of latching balls to prevent brinelling.
4) Internal components purposely designed to reduce turbolences and consequent pressure drop.
5) Retaining rings in steel studied to prevent undermining but easy to be removed for replacement.
6) Versions with special seals are assembled with all components in steel.

Series NV

▶ Features

- **Connection system:** pulling back the sleeve
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** poppet valve
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** according to ISO 7241-1 part A standard (1/2" size only)

- Balls latching system
- Guidevalve with mechanical backstop
- Perfect interchangeability with ball valve couplings NS series

▶ Accessories and spare part kit

See at pages 28-30.

▶ Technical data

Size ❖		DN Nominal diameter		Rated flow		Force to connect		Max. work pressure *		Minimum burst pressure						Fluid spillage
										Connected		Male		Female		
		mm	inc.	l/min	GPM	N	lb	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc max.
1/4"	04	6	0.24	15	3.9	55	12.1	35	5075	140	20300	140	20300	140	20300	0,8
3/8"	06	9	0.35	50	13.2	85	18.7	30	4350	140	20300	120	17400	120	17400	1,3
1/2"	08	10.5	0.41	75	19.8	92	20.3	30	4350	130	18850	120	17400	130	18850	1,8
3/4"	12	16	0.63	150	39.6	150	33	25	3625	100	14500	100	14500	100	14500	8
1"	16	17.5	0.69	230	60.8	130	28.6	23	3335	95	13775	95	13775	98	14210	13
1 1/4"	20	22.5	0.89	340	89.8	145	31.9	22	3190	92	13340	92	13340	90	13050	30
1 1/2"	24	29.5	1.16	450	119	265	58.4	18	2610	80	11600	70	10150	70	10150	34
2"	32	47	1.85	1000	264	250	55	13	1885	64	9280	55	7975	70	10150	100

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

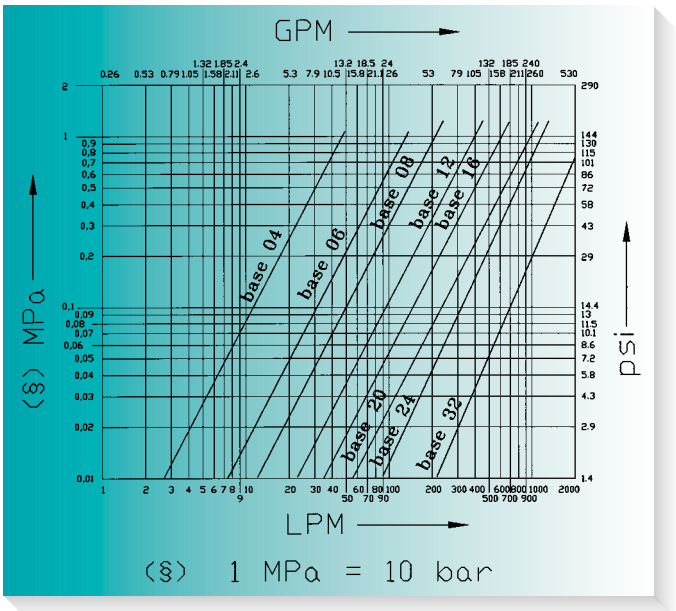
Pressure drop graph:
test bench to ISO 7241-2 specifications with ISO VG 32 oil at 40°C (104°F) temperature.

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

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

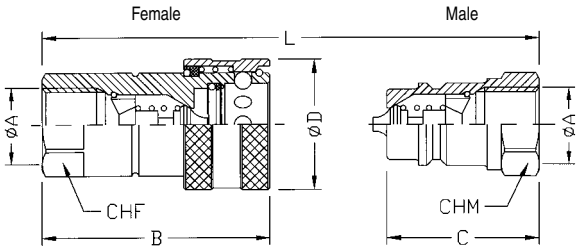
Antiextrusion rings:
In pure PTFE.

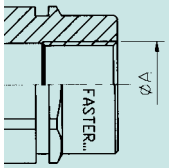
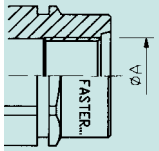
Working temperatures:
with standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F).
For temperature exceeding these values, the quick-release coupling will be supplied with all components in steel together with the suitable seals.



▶ Available items

Series NV



Threaded end	❖	Threaded end	Female	Male A	Thread Ø A	Standards	B		C		Ø D		L		CHF		CHM	
							mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
A 	04	A	NV 14 GAS F NV 14 NPT F * NV 14 JPT F * NV 1415 F	NV 14 GAS M NV 14 NPT M * NV 14 JPT M * NV 1415 M	1/4" BSP 1/4" NPTF 1/4" JPT M14x1,5	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203 DIN 3852-2-X	50 50 50 50	1,97 1,97 1,97 1,97	33 33 33 33	1,30 1,30 1,30 1,30	27 27 27 27	1,06 1,06 1,06 1,06	66 66 66 66	2,6 2,6 2,6 2,6	19 19 19 19	0,75 0,75 0,75 0,75	19 19 19 19	0,75 0,75 0,75 0,75
		B	NV 14-38 SAE F	NV 14-38 SAE M	9/16" UNF	SAE J1926-1	52,5	2,07	35,5	1,39	27	1,06	71	2,79	19	0,75	19	0,75
	06	A	NV 38 GAS F NV 38 NPT F * NV 38 JPT F NV 1815 F	NV 38 GAS M NV 38 NPT M * NV 38 JPT M * NV 1815 M	3/8" BSP 3/8" NPTF 3/8" JPT M18x1,5	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203 DIN 3852-2-X	59,5 59,5 59,5 59,5	2,34 2,34 2,34 2,34	39 39 39 39	1,54 1,54 1,54 1,54	33 33 33 33	1,3 1,3 1,3 1,3	78 78 78 78	3,07 3,07 3,07 3,07	24 24 24 24	0,94 0,94 0,94 0,94	24 24 24 24	0,94 0,94 0,94 0,94
		B	* NV 38-38 SAE F	* NV 38-38 SAE M	9/16" UNF	SAE J1926-1	59,5	2,34	39	1,54	33	1,3	78	3,07	24	0,94	24	0,94
	08	A	NV 12 GAS F NV 12 NPT F NV 12 JPT F * NV 2215 F	NV 12 GAS M NV 12 NPT M NV 12 JPT M NV 2215 M	1/2" BSP 1/2" NPTF 1/2" JPT M22x1,5	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203 DIN 3852-2-X	66 66 66 66	2,60 2,60 2,60 2,60	44 44 44 44	1,73 1,73 1,73 1,73	38 38 38 38	1,5 1,5 1,5 1,5	88 88 88 88	3,46 3,46 3,46 3,46	27 27 27 27	1,06 1,06 1,06 1,06	27 27 27 27	1,06 1,06 1,06 1,06
		B	NV 12-12 SAE F NV 12-58 SAE F NV 0/2215 F * NV 0/12 GAS F	NV 12-12 SAE M NV 12-58 SAE M NV 0/2215 M NV 0/12 GAS M	3/4" UNF 7/8" UNF M22x1,5 1/2" BSP	SAE J1926-1 SAE J1926-1 ISO 6149-1 DIN 3852-2-X	66 69,5 66 66	2,60 2,74 2,60 2,60	47 51 47 47	1,85 2,01 1,85 1,85	38 38 38 38	1,5 1,5 1,5 1,5	88 98,5 88 88	3,46 3,88 3,46 3,46	27 32 27 27	1,06 1,26 1,06 1,06	27 32 27 27	1,06 1,26 1,06 1,06
B 	12	A	NV 34 GAS F NV 34 NPT F * NV 34 JPT F	NV 34 GAS M NV 34 NPT M * NV 34 JPT M	3/4" BSP 3/4 NPTF 3/4 JPT	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203	82,5 82,5 82,5	3,25 3,25 3,25	53,5 53,5 53,5	2,11 2,11 2,11	48 48 48	1,89 1,89 1,89	107 107 107	4,21 4,21 4,21	34 34 34	1,34 1,34 1,34	34 34 34	1,34 1,34 1,34
	16	A	NV 1 GAS F NV 1 NPT F * NV 1 JPT F	NV 1 GAS M NV 1 NPT M * NV 1 JPT M	1" BSP 1" NPTF 1" JPT	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203	100 100 100	3,94 3,94 3,94	66 66 66	2,60 2,60 2,60	56 56 56	2,2 2,2 2,2	132 132 132	5,2 5,2 5,2	41 41 41	1,61 1,61 1,61	41 41 41	1,61 1,61 1,61
	20	A	NV 114 GAS F NV 114 NPT F * NV 114 JPT F	NV 114 GAS M NV 114 NPT M * NV 114 JPT M	1 1/4" BSP 1 1/4" NPTF 1 1/4" JPT	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203	115 115 115	4,53 4,53 4,53	73 73 73	2,87 2,87 2,87	70 70 70	2,76 2,76 2,76	146 146 146	5,75 5,75 5,75	50 50 50	1,97 1,97 1,97	50 50 50	1,97 1,97 1,97
	24	A	NV 112 GAS F NV 112 NPT F * NV 112 JPT F	NV 112 GAS M NV 112 NPT M * NV 112 JPT M	1 1/2"BSP 1 1/2" NPTF 1 1/2" JPT	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203	127,5 127,5 127,5	5,02 5,02 5,02	83,5 83,5 83,5	3,29 3,29 3,29	84 84 84	3,31 3,31 3,31	166 166 166	6,54 6,54 6,54	60 60 60	2,36 2,36 2,36	60 60 60	2,36 2,36 2,36
	32	A	NV 2 GAS F NV 2 NPT F * NV 2 JPT F	NV 2 GAS M NV 2 NPT M * NV 2 JPT M	2" BSP 2" NPTF 2" JPT	DIN 3852-2-X ANSI B 1.20.3 JIS B 0203	151 151 151	5,94 5,94 5,94	100 100 100	3,94 3,94 3,94	119 119 119	4,69 4,69 4,69	200 200 200	7,87 7,87 7,87	75 75 75	2,95 2,95 2,95	75 75 75	2,95 2,95 2,95

❖ Size GAS = BSP *On request