Series 3CPV

Features

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling the male coupling
- **Shut-off system:** poppet valve
- **Connectability:** only male coupling under pressure
- **Disconnection under pressure:** just in case of emergency
- **Interchangeability:** according to ISO 7241-1 part A standard

- Balls-bearing latching system
- Guidevalve with mechanical backstop
- Suitable for flexible hoses
- Panel mounting by the sleeve
- Breakaway feature (if panel mounted)
- Internal patented mechanical block

Patent Application Pending

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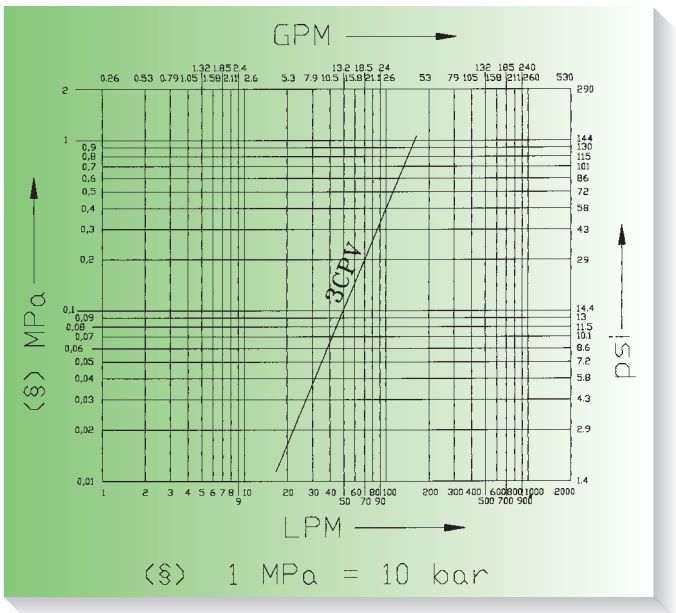
Size	DN Nominal diameter		Rated Flow		Force to connect		Max. working pressure *		Minimum burst pressure						Fluid spillage
									Connected		Male		Female		
	mm	inc	l/min.	GPM	N	lb.	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI	cc. max.
08	10,5	0.41	70	18.5	185	40	25	3625	100	14500	105	15250	100	14500	1.8

* 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 yellow passivation.
- Springs in C98 steel.
- High resistance balls 100 C6.

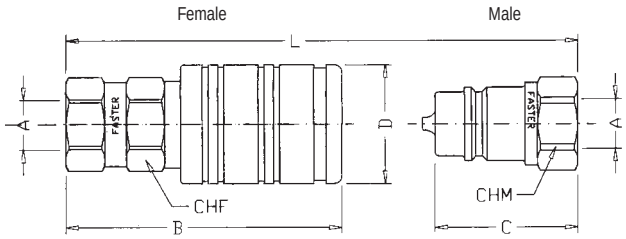
Seals:
Standard in oilproof NBR (Nitrile Rubber).
On request: Viton, Neoprene, EPDM or other seals.

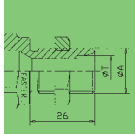
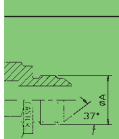
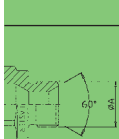
Antiextrusion rings:
In pure PTFE.

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 appropriate seals.

▶ **Available items**

Series 3CPV



	❖	Female	Male	Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		OEM's users
						mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	
		3CPV 12GAS F	Male coupling according to ISO 7241-1 part A (see page 6)	1/2" BSP	DIN 3852-2-X	89,3	3,52	44	1,73	38	1,50	111,3	4,38	27	1,06	27	1,06			C-F-I-P
		3CPV 12NPT F		1/2" NPTF	ANSI B 1.20.3	89,3	3,52	44	1,73	38	1,50	111,3	4,38	27	1,06	27	1,06			N
	08																			
		3CPV 34UNF F		3/4" UNF	SAE J 1926-1	89,3	3,52	44	1,73	38	1,50	111,3	4,38	27	1,06	27	1,06			L-N
		3CPV 34UNF F MF		3/4" UNF	SAE J 1926-1	89,3	3,52	44	1,73	39,7	1,56	111,3	4,38	27	1,06	27	1,06			
	08	3CPV 78UNF F		7/8" UNF	SAE J 1926-1	91,3	3,59	44	1,73	38	1,50	111,3	4,38	27	1,06	27	1,06			
		3CPV 0/2215 F		M22x1,5	ISO 6149-1	89,3	3,52	44	1,73	38	1,50	111,3	4,38	27	1,06	27	1,06			
		3CPV 0/2215 F		M22x1,5	ISO 6149-1	89,3	3,52	44	1,73	39,7	1,56	111,3	4,38	27	1,06	27	1,06			H
		3CPV 1/12GAS F		1/2" BSP	DIN 3852-2-B	85,4	3,36	44	1,73	38	1,50	107,4	4,23	27	1,06	27	1,06			
		3CPV 1/34UNF F		3/4" UNF	SAE J 1926-3	85,4	3,36	44	1,73	38	1,50	107,4	4,23	27	1,06	27	1,06			
	08																			
		3CPV 2/1815 F		M18x1,5	ISO 6149-2	85,3	3,36	44	1,73	38	1,50	107,3	4,22	27	1,06	27	1,06	12,2	0,48	
		3CPV 2/2215 F		M22x1,5	ISO 6149-2	86,3	3,40	44	1,73	38	1,50	108,3	4,26	27	1,06	27	1,06	15,2	0,60	
	08																			
		3CPV 7/2215 F		M22x1,5	ISO 8434-1-L	100,3	3,95	44	1,73	38	1,50	122,3	4,81	27	1,06	27	1,06	15,2	0,60	
	08																			
		3CPV 11/08SAE F		13/16" UN	ISO 8434-3	87,1	3,43	44	1,73	38	1,50	109,1	4,30	27	1,06	27	1,06			
	08																			
		3CPV 13/58SAE F		7/8" UNF	ISO 8434-2	93,6	3,69	44	1,73	38	1,50	115,6	4,55	27	1,06	27	1,06			
	08																			
		3CPV 16/12GAS F		1/2" BSP	DIN 3863	88,3	3,48	44	1,73	38	1,50	110,3	4,34	27	1,06	27	1,06			
	08																			

❖ Size GAS = BSP ⋆On request

Caption OEM's Users

A - Agritalia	D - Agco Fendt	G - Case	L - Landini	O - Renault	R - Steyr
B - Claas	E - Goldoni	H - John Deere	M - Massey Ferguson	P - Same	
C - Deutz Fahr	F - Hürlimann	I - Lamborghini	N - New Holland Italia	Q - Valtra	

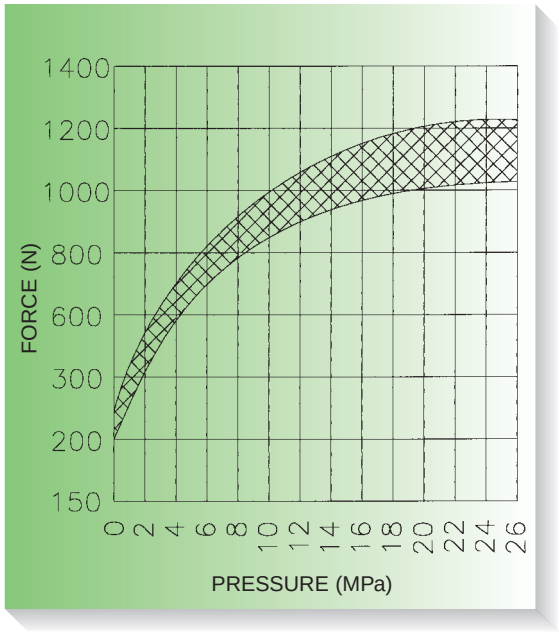
Series 3CFPV

Features

- **Connection system:** pushing the male coupling
- **Disconnection system:** pulling the male coupling
- **Shut-off system:** poppet valve
- **Connectability:** only male coupling under pressure
- **Disconnection under pressure:** in case of emergency only
- **Interchangeability:** according to ISO 7241-1 part A standard

- Balls-bearing latching system
- Guidevalve with mechanical backstop
- Suitable for rigid tubes or distributors
- Breakaway feature
- Internal mechanical block patented

Patent Application Pending

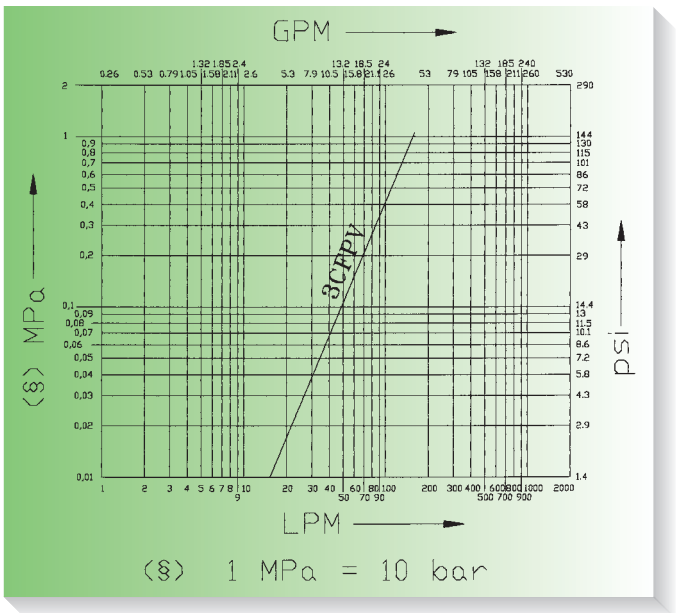


Disconnection force results from internal pressure.
(Breakaway feature)

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.
08	10,5	0.41	68	18	220	48	25	3625	105	15250	105	15250	100	14500	1.8

* 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°C) 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 yellow passivation.
- Springs in C98 steel.
- High resistance balls 100 C6.

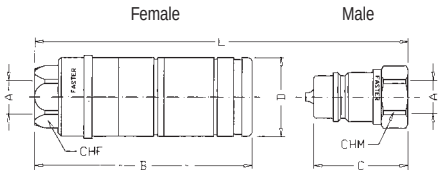
Seals:
Standard in oilproof NBR (Nitrile Rubber).
On request: Viton, Neoprene, EPDM or other seals.

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 appropriate seals.

▶ **Available items**

Series 3CFPV



	❖	Female	Male	Ø A	Standards	B		C		Ø D		L		CHF		CHM		Ø T		OEM's users
						mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	
	08	3CFPV 12GAS F	Male coupling according to ISO 7241-1 part A (see page 6)	1/2" BSP	DIN 3852-2-X	107,3	4,22	44	1,73	38	1,50	129,3	5,09	27	1,06	27	1,06			C-F-I-P
		3CFPV 12NPT F		1/2" NPTF	ANSI B 1.20.3	107,3	4,22	44	1,73	38	1,50	129,3	5,09	27	1,06	27	1,06			N
	08	3CFPV 34UNF F		3/4" UNF	SAE J 1926-1	107,3	4,22	44	1,73	38	1,50	129,3	5,09	27	1,06	27	1,06			L
		3CFPV 78UNF F		7/8" UNF	SAE J 1926-1	109,3	4,30	44	1,73	38	1,50	131,3	5,17	30	1,18	27	1,06			
	08	3CFPV 1/34UNF F		3/4" UNF	SAE J 1926-3	107,5	4,23	44	1,73	38	1,50	129,5	5,10	32	1,26	27	1,06			Q
		3CFPV 1/78UNF F		7/8" UNF	SAE J 1926-3	113,7	4,48	44	1,73	38	1,50	135,7	5,34	32	1,26	27	1,06			G
		*3CFPV 1/34S F		1 1/16" UN	SAE J 1926-3	110,8	4,36	44	1,73	38	1,50	132,8	5,23	32	1,26	27	1,06			
		3CFPV 1/1815 F		M18x1,5	ISO 6149-2	113,3	4,46	44	1,73	38	1,50	135,3	5,33	32	1,26	27	1,06			N
		3CFPV 1/2215 F		M22x1,5	ISO 6149-2	110,8	4,36	44	1,73	38	1,50	132,8	5,23	32	1,26	27	1,06			A-G-H-L-M-N-O
	08	3CFPV 08 2/2215 F		M22X1,5	ISO 8434-1-L	118	4,65	44	1,73	38	1,50	140,0	5,51	32	1,26	27	1,06	15,2	0,60	
		3CFPV 08 2/302 F		M30X2	ISO 8434-1-L	118	4,65	44	1,73	38	1,50	140,0	5,51	32	1,26	27	1,06	22,2	0,87	
	08	*3CFPV 3/2015 F		M20x1,5	ISO 8434-1 S	107,8	4,24	44	1,73	38	1,50	129,8	5,11	32	1,26	27	1,06	12,2	0,48	
	08	3CFPV 7/1815 F		M18x1,5	ISO 8434-1-L	121,5	4,78	44	1,73	38	1,50	143,5	5,65	32	1,26	27	1,06	12,2	0,48	A
		3CFPV 7/2215 F		M22x1,5	ISO 8434-1-L	123,5	4,86	44	1,73	38	1,50	145,5	5,73	32	1,26	27	1,06	15,2	0,60	C
	08	3CFPV 8/2415 F		M24x1,5	ISO 8434-1-S	121,5	4,78	44	1,73	38	1,50	143,5	5,65	32	1,26	27	1,06	16,2	0,64	A
	08	3CFPV 11/12SF J		13/16" UN	ISO 8434-3	108,6	4,28	44	1,73	38	1,50	130,6	5,14	32	1,26	27	1,06			
	08	3CFPV 12/1UNS F		1" UNS	ISO 8434-3	130,3	5,13	44	1,73	38	1,50	152,3	6,00	32	1,26	27	1,06			G
		3CFPV 08 12/34S F		1 3/16" UN	ISO 8434-3	136,8	5,39	44	1,73	38	1,50	158,8	6,25	32	1,26	34	1,34			
	08	*3CFPV 13/12S F		3/4" UNF	ISO 8434-2	111,1	4,37	44	1,73	38	1,50	133,1	5,24	32	1,26	27	1,06			
		*3CFPV 13/58S F		7/8" UNF	ISO 8434-2	115,1	4,53	44	1,73	38	1,50	137,1	5,40	32	1,26	27	1,06			
	08	3CFPV 14/34UNF F		3/4" UNF	ISO 8434-2	124,8	4,91	44	1,73	38	1,50	146,8	5,78	32	1,26	27	1,06			O
		3CFPV 14/78UNF F		7/8" UNF	ISO 8434-2	128,8	5,07	44	1,73	38	1,50	150,8	5,94	32	1,26	27	1,06			Q
	08	3CFPV 19/2215 F		M22x1,5	DIN 7643	134,8	5,31	44	1,73	38	1,50	156,8	6,17	32	1,26	27	1,06			C-F-I-P-R
	08	3CFPV 21/2215 F		M22x1,5	DIN 3852-11	110,3	4,34	44	1,73	38	1,50	132,3	5,21	32	1,26	27	1,06			C-F-I-P-G-R
	08	3CFPV 22/2215 F		M22x1,5	DIN 3852-1-A	110,3	4,34	44	1,73	38	1,50	132,3	5,21	32	1,26	27	1,06			R

❖ Size GAS = BSP ⋆On request

Caption OEM's Users

A - Agritalia	D - Agco Fendt	G - Case	L - Landini	O - Renault	R - Steyr	U - BCS
B - Claas	E - Goldoni	H - John Deere	M - Massey Ferguson	P - Same	S - JCB	
C - Deutz Fahr	F - Hürlimann	I - Lamborghini	N - New Holland Italia	Q - Valtra	T - Antonio Carraro	