

## 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

## Technical data

| Size | DN<br>Nominal<br>diameter |      | Rated<br>Flow |     | Force<br>to connect |     | Max. work.<br>pressure |      | Minimum burst pressure |       |        |           |      |        | Fluid<br>spillage |
|------|---------------------------|------|---------------|-----|---------------------|-----|------------------------|------|------------------------|-------|--------|-----------|------|--------|-------------------|
|      | mm                        | inc  | l/min.        | GPM | N                   | lb. | MPa                    | PSI  | Connected              | Male  | Female | Connected | Male | Female |                   |
| 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 carbonitrided.
- 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).

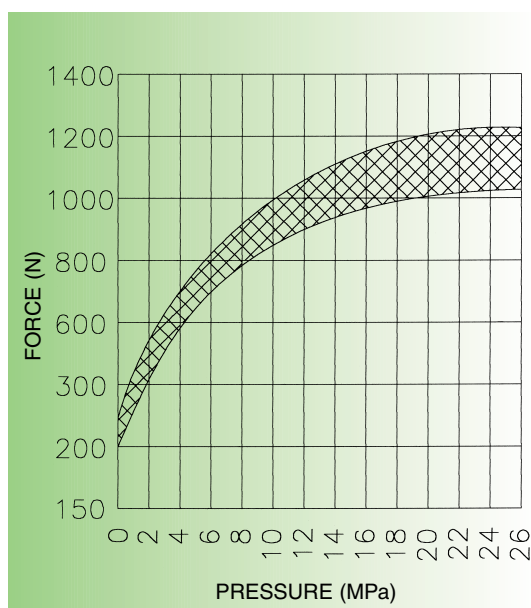
For temperature exceeding these values, the quick-release coupling  
will be supplied with all components in steel together  
with the appropriate seals.

## Series 3CFPV

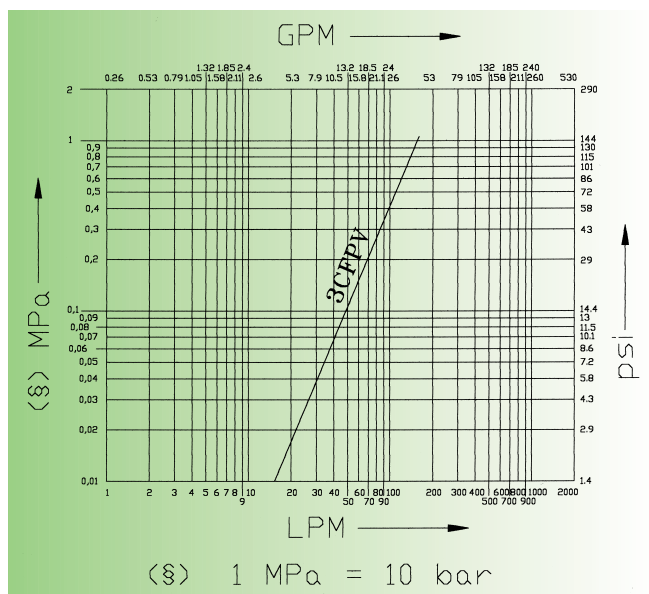


LEHENGOTAK, S. A.

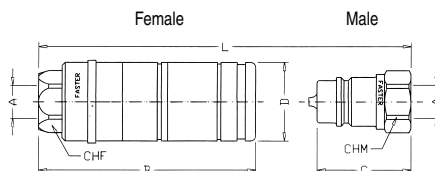
Patent  
Application  
Pending



Disconnection force results from internal pressure.  
(Breakaway feature)



# Series 3CFPV



**LEHENGOMAK, S. A.**

|  | ❖  | 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     |      | 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 |      |      | N             |
|  |    | 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 |      |      |               |
|  |    | 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             |
|  |    |                   |      |            |               |       |      |    |      |     |      |       |      |     |      |     |      |      |      |               |
|  |    |                   |      |            |               |       |      |    |      |     |      |       |      |     |      |     |      |      |      |               |

Male coupling according to ISO 7241-1 part A (see page 6)

❖ 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 |         |