


For High Pressure

FLAT FACE CUPLA

F35


For hydraulic pressures up to 35.0 MPa [357 kgf/cm²] with flat contact face

Working pressure



35.0
35.0 MPa
(357 kgf/cm²)

Valve structure



Two-way shut-off
(Non-Spill)

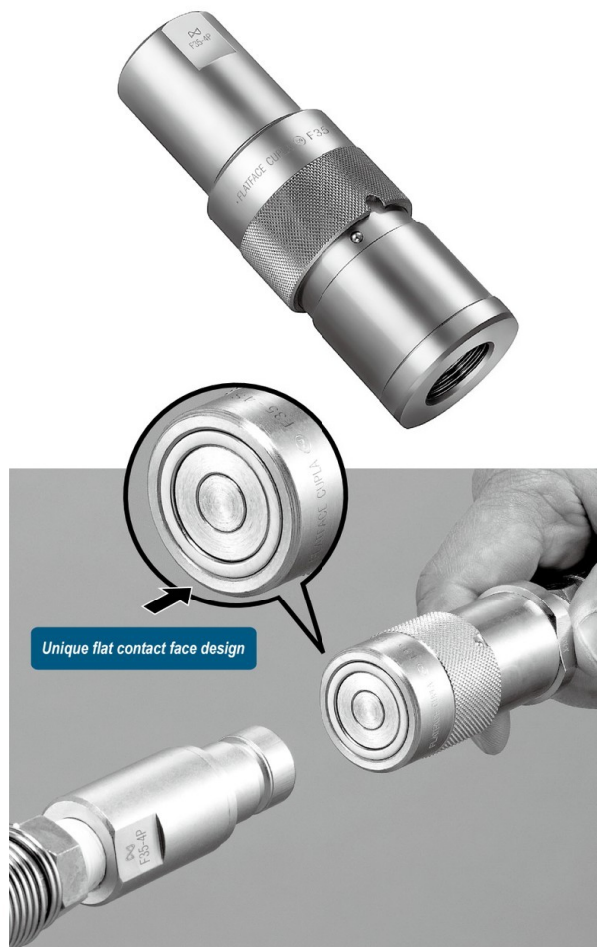
Applicable fluid



Hydraulic oil

Flat contact face design reduces spill upon disconnection.

- Flat contact face design makes it easy to clean dust and foreign matter adhered on the surface of coupling so as to prevent them from entering inside and thus causing faulty operation of connection or disconnection.
- Flat contact face design minimizes air admixture during connection to keep the possible malfunction of equipment caused by the air bubbles in the hydraulic line at minimum level.
- Push-to-connect operation.
- Sleeve stopper mechanism is engaged by rotating sleeve after connection. It prevents accidental disconnection even when vibration or impact is applied to the CUPLA.
- The special design reduces pressure loss considerably, and especially suited to hydraulic applications in which big flow is needed. Both socket and plug have built-in automatic shut-off valves that prevent fluid spill out on disconnection.




Specifications				
Body material	Special steel (Nickel plated)			
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1"			
Pressure unit	MPa	kgf/cm ²	bar	PSI
Working pressure	35.0	357	350	5080
Seal material	Seal material	Mark	Working temperature range	Remarks
	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Standard material
	Nitrile rubber	NBR (SG)	-20°C to +80°C	Made-to-order item

Maximum Tightening Torque				
Size (Thread)	1/4"	3/8"	1/2"	3/4"
Torque	28 (286)	40 (408)	80 (816)	150 (1530)

Flow Direction

Fluid flow can be bi-directional when socket and plug are connected.



Interchangeability

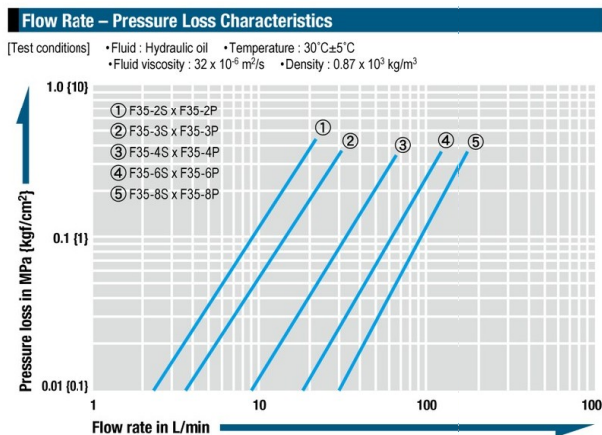
Socket and plug of different sizes cannot be connected.

Minimum Cross-Sectional Area				
Model	F35-2SP	F35-3SP	F35-4SP	F35-6SP
Minimum cross-sectional area	21.2	32.2	78.5	149.6

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

Admixture of Air on Connection				
Model	F35-2SP	F35-3SP	F35-4SP	F35-6SP
Volume of air	0.1	0.1	0.2	0.3



⚠ Precautions for use

Do not connect / disconnect CUPLA when pressure is applied or remaining.

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Models and Dimensions

WAF : WAF stands for width across flats.

Plug

Female thread

Model	Application (Thread)	Mass (g)	Dimensions (mm)				
			L	C	øD	H(WAF)	T
F35-2P	R 1/4	106	58	18.8	21.5	19	Rc 1/4
F35-3P	R 3/8	190	67.5	24	27	24	Rc 3/8
F35-4P	R 1/2	290	78	28.5	31.7	27	Rc 1/2
F35-6P	R 3/4	460	84.5	31	40	36	Rc 3/4
F35-8P	R 1	1000	108	39	50	46	Rc 1

Socket

Female thread

Model	Application (Thread)	Mass (g)	Dimensions (mm)			
			L	øD	H(WAF)	T
F35-2S	R 1/4	182	(57.5)	(28)	26 x ø28.5	Rc 1/4
F35-3S	R 3/8	320	(70)	(34)	30	Rc 3/8
F35-4S	R 1/2	490	(78)	(41)	36	Rc 1/2
F35-6S	R 3/4	815	(85)	(49)	46 x ø50	Rc 3/4
F35-8S	R 1	1520	(104)	(63)	55	Rc 1



Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.