



Fixed Speed / Constant Fill Fluid Couplings

<http://www.fluidomat.com>



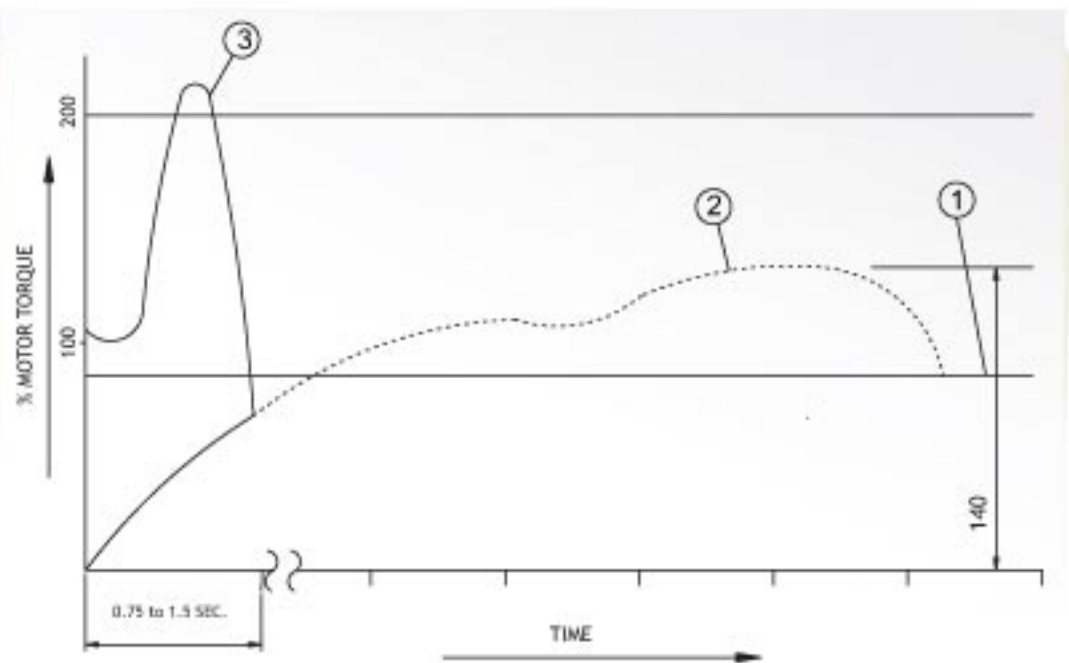
SM-AR / HF-AR COUPLING

Type AR Fluid Couplings are with annular ring and extra long delayfill chamber.

During the initial rotation, the annular ring fills up and the working circuit is partially emptied enabling very low torque transmission during motor run up (acceleration). This enables very quick acceleration of motor speed and quick decay of motor current.

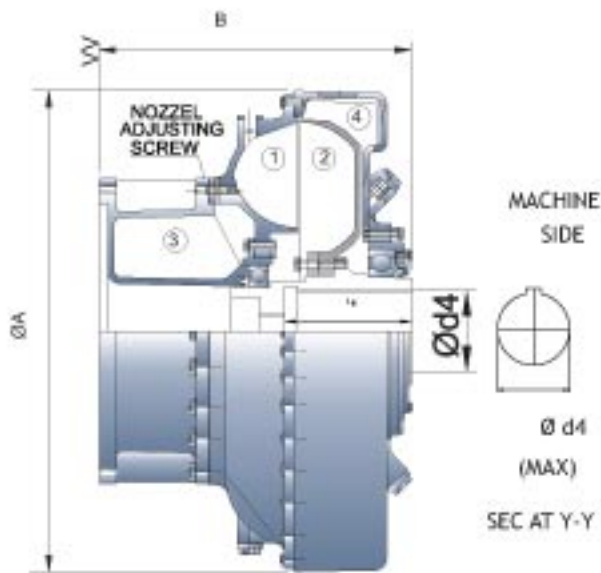
This is followed by increase in transmitted torque by gradual emptying of delayfill chamber oil into the working circuit. The torque is built up gradually and enables controlled acceleration torque to the driven machine. These couplings are very useful for conveyor drives.

Starting torque characteristic curve for fluid coupling type SM-AR & HF-AR for Conveyor Belt Application.



- 1 LOADED CONVEYOR.
- 2 FLUID COUPLING STARTING TORQUE CHARACTERISTICS FOR LOADED CONVEYOR.
- 3 MOTOR TORQUE CHARACTERISTICS.

TYPE SM-DX AR



- 1) IMPELLER
- 2) ROTOR
- 3) DELAY FIL CHAMBER
- 4) ANNULAR CHAMBER

MODEL: SM-9 TO 12 DX - AR

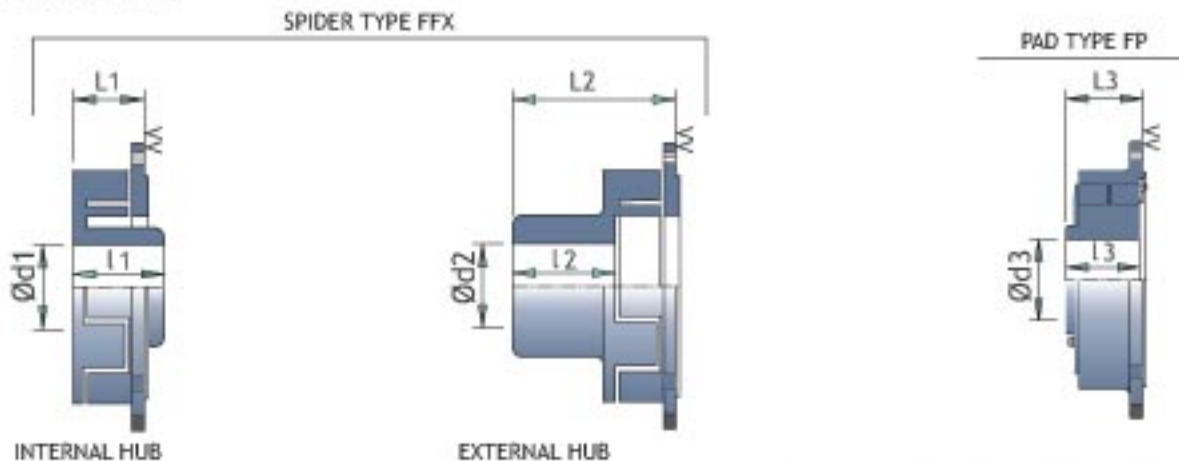
RATING TABLE:

COUPLING MODEL	MAX. RATINGS IN KW AT DIFFERENT INPUT SPEEDS RPM						
	600 RPM	730 RPM	900 RPM	970 RPM	1200 RPM	1470 RPM	1800 RPM
SM-9 DX-AR	12	22	41	52	98	172	246
SM-10 DX-AR	22	39	73	91	172	275	370
SM-10B DX-AR	32	57	107	134	253	373	500
SM-11 DX-AR	47	85	158	198	374	475	-
SM-12 DX-AR	82	148	278	348	600	750	-
SM-13 DX-AR	163	293	550	620	850	1100	-

DIMENSION TABLE:

MODEL	Ø A	B	Ø d4	l-4	DRY WT. (Kgs)
SM-9 DX-AR	600	385	95	155	145
SM-10 DX-AR	650	428	110	170	212
SM-10-B DX-AR	724	451	110	190	265
SM-11 DX-AR	761	494	120	200	305
SM-12 DX-AR	875	567	130	240	395
SM-13 DX-AR	1000	640	150	270	525

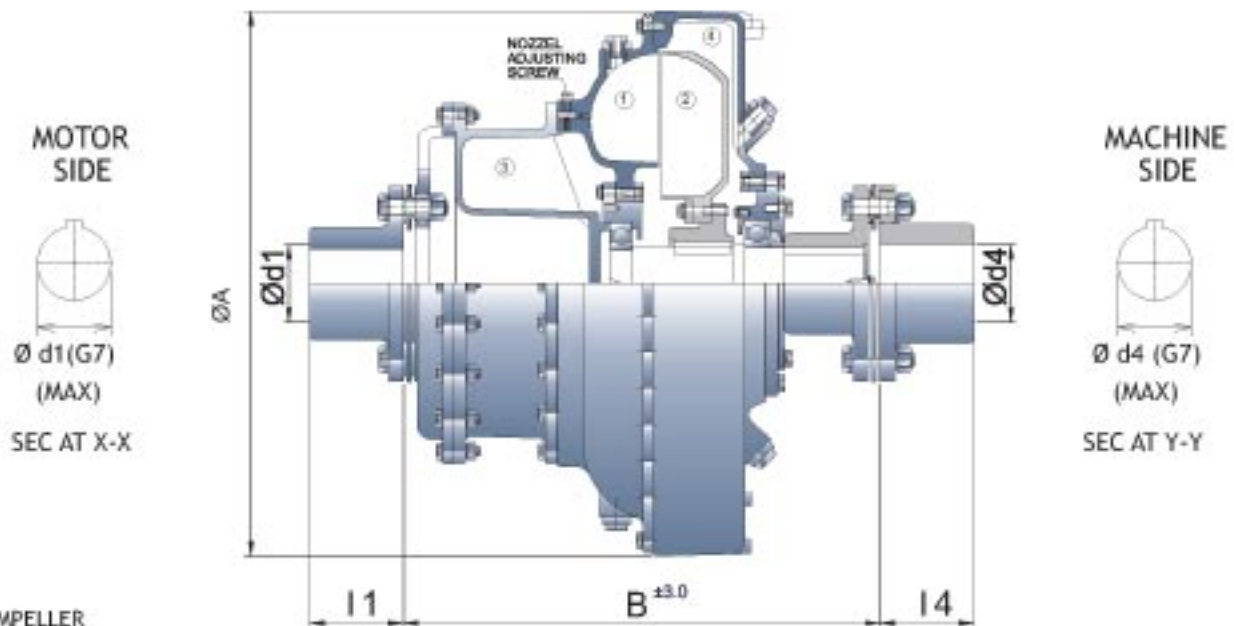
FLEXIBLE COUPLING



MODEL	FLEX. COUP. FFX-	INTERNAL HUB				EXTERNAL HUB				FLEX. COUP. FP-	PAD TYPE COUPLING			
		Ø d1 MAX.	l 1	L1	Wt. IN kg.	Ø d2 MAX.	l 2	L2	Wt. IN kg.		Ø d3 MAX.	l 3	L3	Wt. IN kg.
SM-9 DX-AR	FFX-4	90	102	87	-	100	120	195	-	-	-	-	-	
SM-10 DX-AR	FFX-5	-	-	-	-	125	150	230	-	FP-1	100	110	120	-
SM-10B DX-AR	-	-	-	-	-	-	-	-	-	FP-2	120	140	151	-
SM-11 DX-AR	-	-	-	-	-	-	-	-	-	FP-2	120	140	151	-
SM-12 DX-AR	-	-	-	-	-	-	-	-	-	FP-3	140	155	167	-
SM-13 DX-AR	-	-	-	-	-	-	-	-	-	FP-4	160	180	179	-

☞ REFERENCE FACE FOR FLEXIBLE COUPLING

TYPE HF DX AR



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DIMENSION TABLE:

MODEL	$\varnothing A$	B	$\varnothing d1 / \varnothing d4$	l1 / l4	DRY WT. (Kgs)
HF-9 DX-AR	600	526	90	110	191
HF-10 DX-AR	670	609	110	125	224
HF-10B DX-AR	724	632	110	125	280
HF-11 DX-AR	761	684	120	125	326
HF-12 DX-AR	875	832	150	170	485
HF-13 DX-AR	1000	912	145	200	655

