

inbeat

CLOSE-COUPLED CHEMICAL CENTRIFUGAL PUMP

MPN series

GENERAL CHARACTERISTICS

Close-coupled version anticorrosive pumps for a wide range of industrial processes. Their reliability and flexibility make them ideal for frequently used small and medium facilities. The MPN series can be dismantled without changing its location.

The shaft sealing systems meet the needs of the process with the possibility of installing a wide range of market seals, either single, double opposition or external well balanced.

APPLICATIONS

MPN series are widely used in processes involving highly corrosive chemical substances specially suitable in small scrubbers, recirculating and loading lines commonly used on industry nowadays.

The scope of uses of MPN series are wide-ranging: **Chemical industry, Water treatment Processes such as Desalination, steel industry, environment industry, etc.**

FEATURES:

Flows: Up to 50 m³/h

Head: Up to 50 m.c.l.

MATERIALS: PP / PVDF / PEH / PVC

ATEX 94/9/CE arrangement under request



ADDITIONAL CHARACTERISTICS:

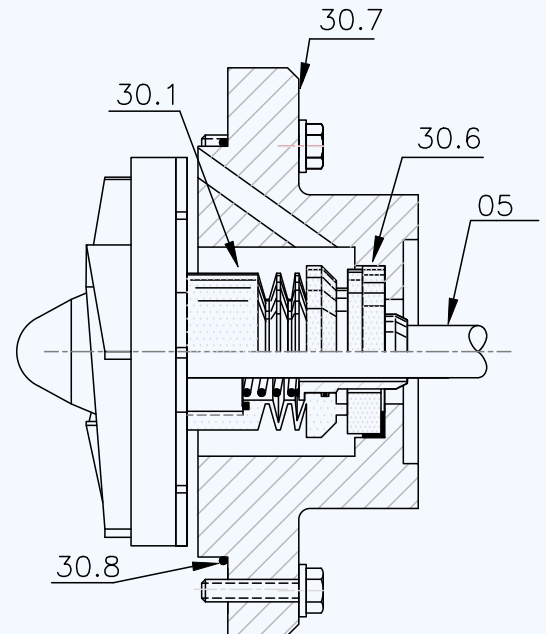
Paint protection according to ISO 12944-5:2007 Table A.3 category C3-M

Availanle C4 & C5 paint protection levels under request.

MPN MECHANICAL SEALS ARRANGEMENTS

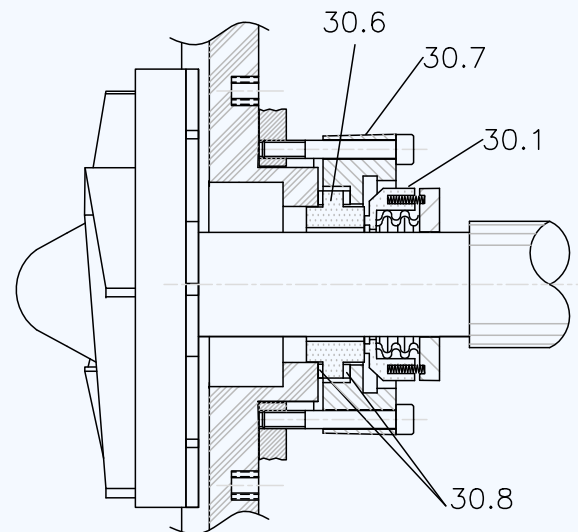
» SF/SC - INTERNAL SEAL API plan 01

- 30.1 - Rotating part
- 30.6 - Stationary part
- 30.7 - Clamping plate
- 30.8 - Stationary joints



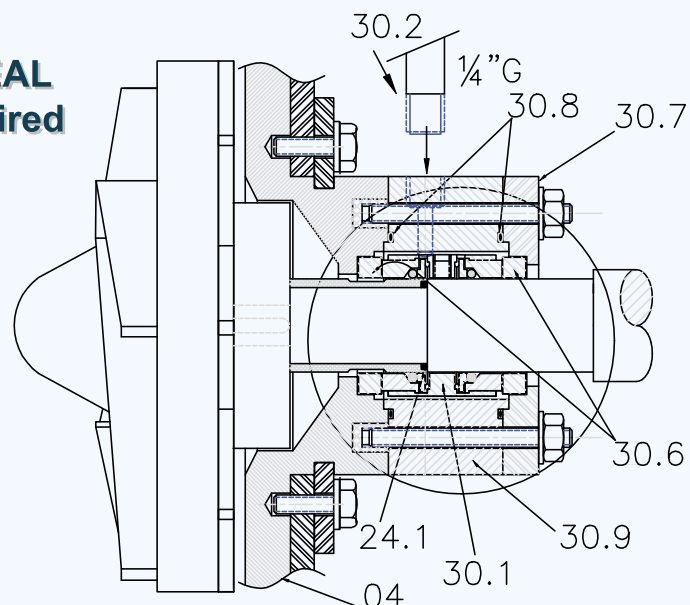
» SE-WELL BALANCED EXTRENAL SEAL

- 30.1 - Rotating part
- 30.6 - Stationary part
- 30.7 - Clamping plate
- 30.8 - Stationary joints



» 8622/B4 - DOUBLE IN OPPOSITION SEAL API plan 53/54 - code 9 ISO 5199 Required

- 30.1 - Rotating part
- 30.2 - Flush injection
- 30.6 - Stationary part
- 30.7 - Clamping plate
- 30.8 - O-ring joints

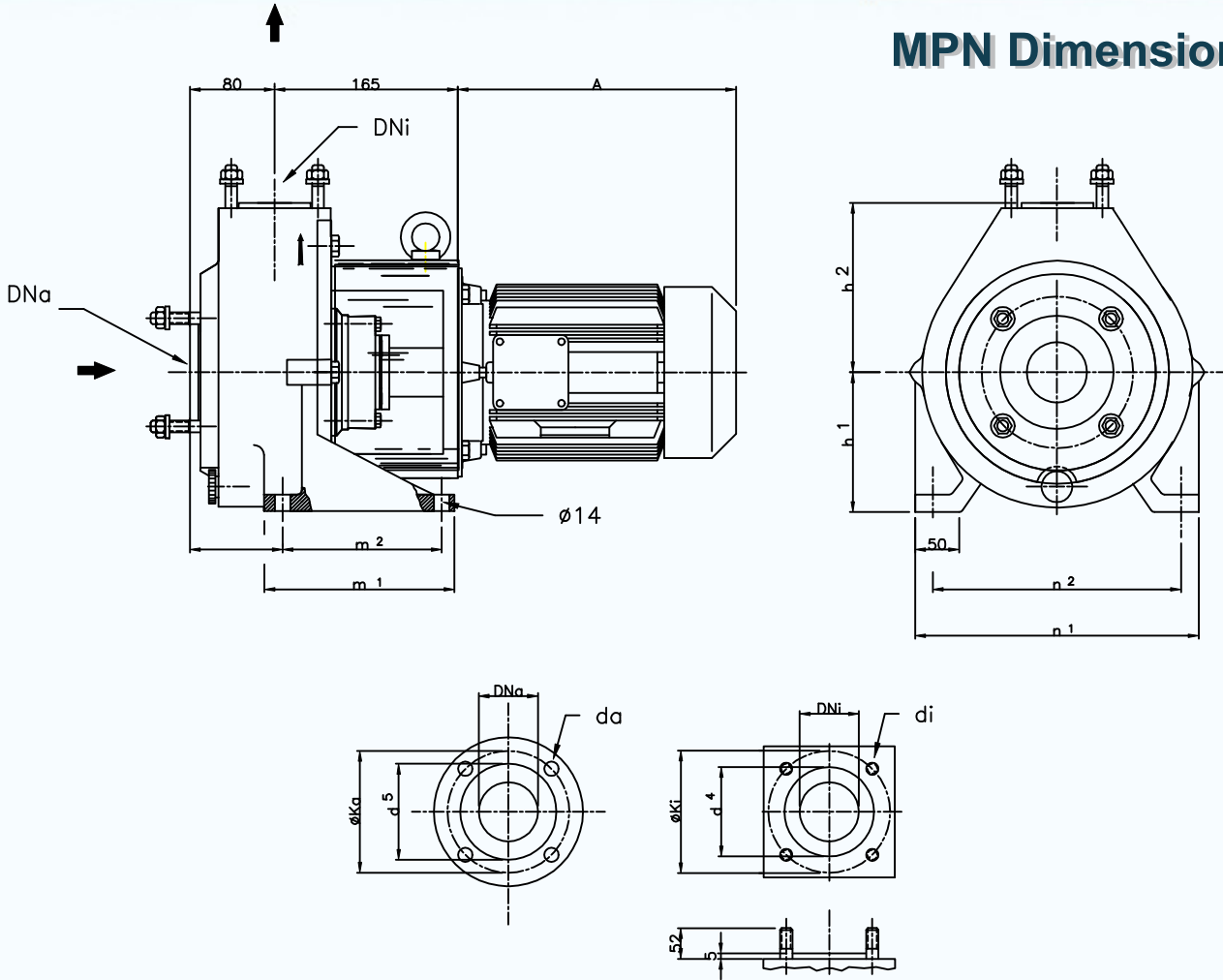


MPN series

Close-coupled centrifugal pump



MPN Dimension detail



Dimensiones en mm. / Dimensions in mm. / Dimensions en mm.

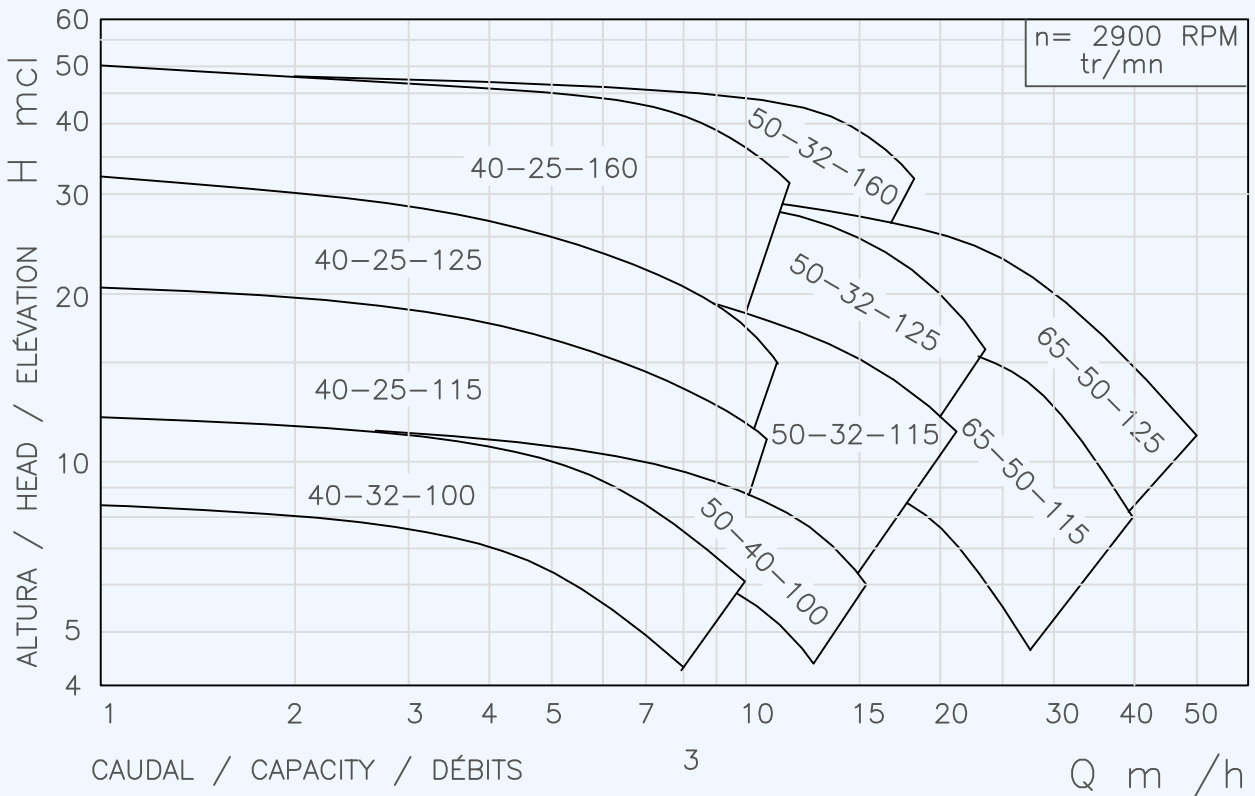
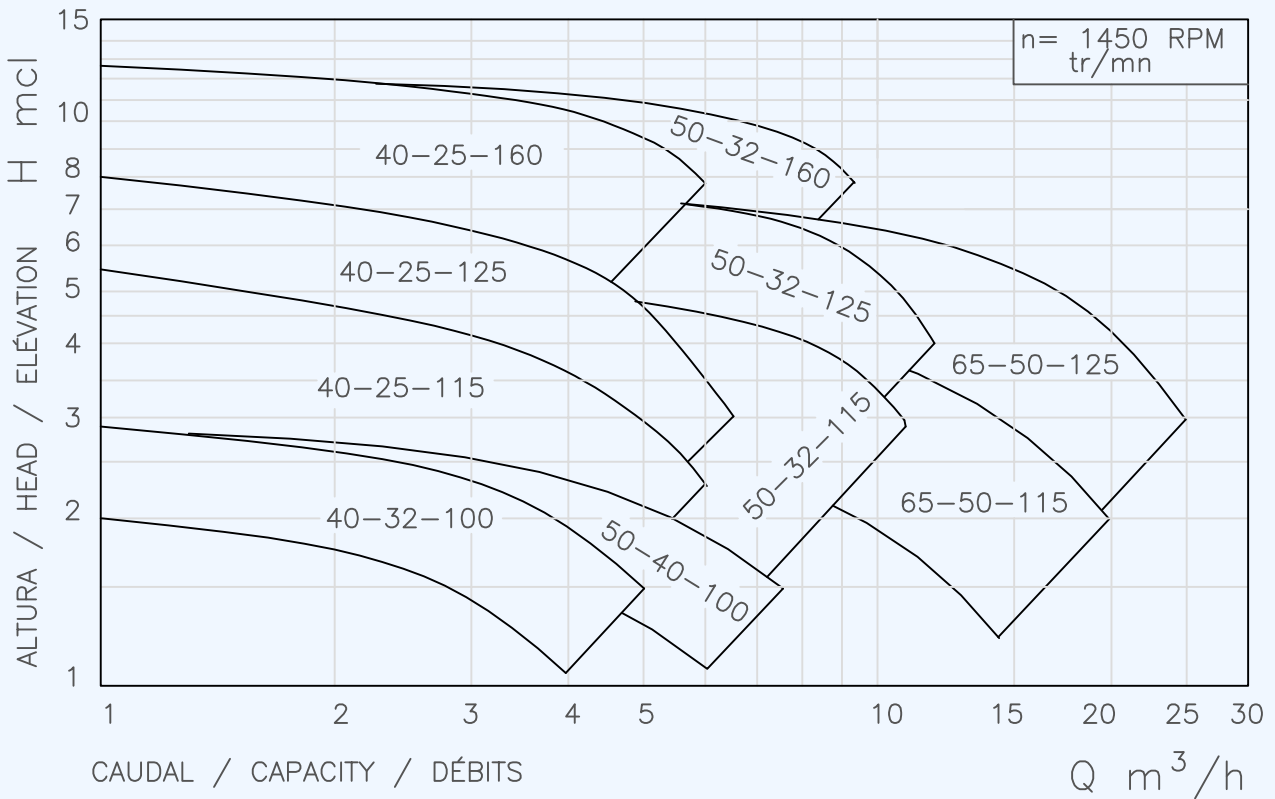
BOMBA / PUMP / POMPE																
TIPO TYPE MPN	BRIDAS FLANGES BRIDES ISO 7005-1 PN-16		DIMENSIONES DIMENSIONS													
	DNa	DNi	h ₁	h ₂	l	m ₁	m ₂	n ₁	n ₂	Ka	Ki	da	di	d ₅	d ₄	nGa ngi
40-32-100	40	32	112	125	80	160	124	210	164	110	100	M-16	M-16	92	68	4
50-40-100	50	40								125	110		M-12			
40-25-115	40	25								110	85		M-12			
40-25-125	40	25	132	140	90	180	140	240	190	110	85	M-16	M-12	92	68	4
50-32-115	50	32								125	100		M-16			
50-32-125	50	32								125	100		M-16			
65-50-115	65	50								145	125		M-16			
65-50-125	65	50	122	98												
40-25-160	40	25	132	160	90	180	140	265	212	110	85	M-16	M-12	92	68	4
50-32-160	50	32								125	100		M-16			

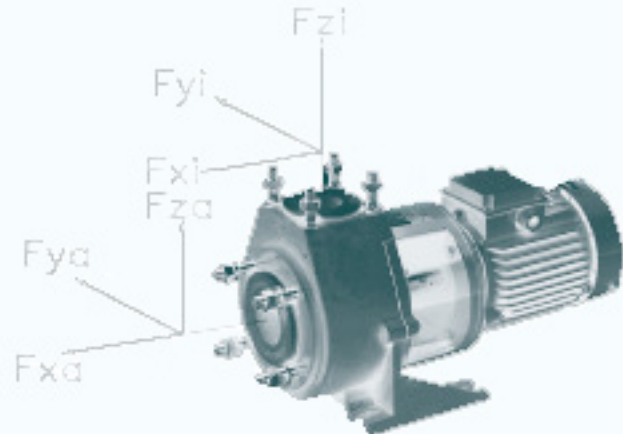
MOTOR / MOTEUR		MOTOR ELECTRICO NORMALIZADO STANDARDIZED ELECTRIC MOTOR							MOTEUR ÉLECTRIQUE NORMALISÉ		
TIPO/TYPE	71	80		90		100		112			
KW. 3000 rpm.	0.37	0.55	0.75	1.1	1.5	2.2	3	4			5.5 No estandar Non standard
KW. 1500 rpm.	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3		4	
A*	208		234		260		295		315		

* Datos aprox. según fabricante / Approx. data according manufacturer



Performance curves





MAXIMUM ALLOWED NOZZLE LOADINGS

Hoja/sheet/Feuille: E-0040-6

TIPO TYPE MPN	FUERZAS / FORCES						MOMENTOS / MOMENTS					
	IMPULSIÓN / DISCHARGE N			ASPIRACIÓN / SUCTION			IMPULSIÓN / DISCHARGE N.m			ASPIRACIÓN / SUCTION		
	F _{xi}	F _{yi}	F _{zi}	F _{xa}	F _{ya}	F _{za}	M _{xi}	M _{yi}	M _{zi}	M _{xa}	M _{ya}	M _{za}
40-32-100	127,76	449,89	1726,15	270,35	952,00	1049,23	21,10	74,31	37,15	21,10	74,31	22,03
50-40-100	134,86	474,89	1883,08	285,36	1004,89	1144,62	25,32	89,17	44,58	25,32	89,17	26,44
40-25-115	113,56	399,90	1569,23	240,31	846,23	953,85	12,66	44,58	22,29	12,66	44,58	13,22
40-25-125	118,25	434,06	1688,37	250,14	894,42	1074,42	16,81	60,11	30,05	16,81	60,11	16,11
50-32-115	132,17	488,63	1918,60	272,34	1006,87	1220,93	40,87	151,11	75,55	40,87	151,11	40,49
50-32-125	114,78	424,33	1803,49	236,51	874,38	1147,67	21,25	78,58	39,29	21,25	78,58	21,05
65-50-115	132,17	488,63	1995,35	272,34	1006,87	1269,77	26,16	96,71	48,35	26,16	96,71	25,91
60-50-125	128,69	475,77	1918,60	265,18	980,37	1220,93	24,52	90,66	45,33	24,52	90,66	24,29
40-25-160	101,12	412,56	1611,63	223,68	912,64	1025,58	12,90	52,63	26,31	12,90	52,63	12,64
50-32-160	113,37	462,57	1803,49	250,79	1023,27	1147,67	20,49	83,58	41,79	20,49	83,58	20,07

PAR APRIETE RECOMENDADO EN BRIDAS / FLANGE TORQUING RECOMMENDATIONS

	Diámetro nominal / Nominal Width [mm]										
	25	32	40	50	65	80	100	125	150	200	250
Par [Nm]	9	15	18	20	22	-	-	-	-	-	-



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