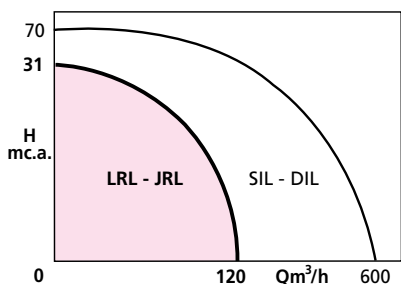


CAMPO DI IMPIEGO

Portata fino a:	120 m³/h
Prevalenza fino a :	31 mc.a.
Pressione d'esercizio Max:	10 bar
Temperatura d'esercizio:	da -10°C a +110°C
DN Attacchi:	da 32 a 80



✓ **LRL** motore orizzontale



✓ **JRL** motore orizzontale



✓ **MGP** modulo di controllo e protezione JRL

LRL-JRL

POMPE IN-LINE SINGOLE E GEMELLARI

Riscaldamento e Condizionamento
Ricircolo acqua calda sanitaria
2 e 4 POLI - 50 Hz

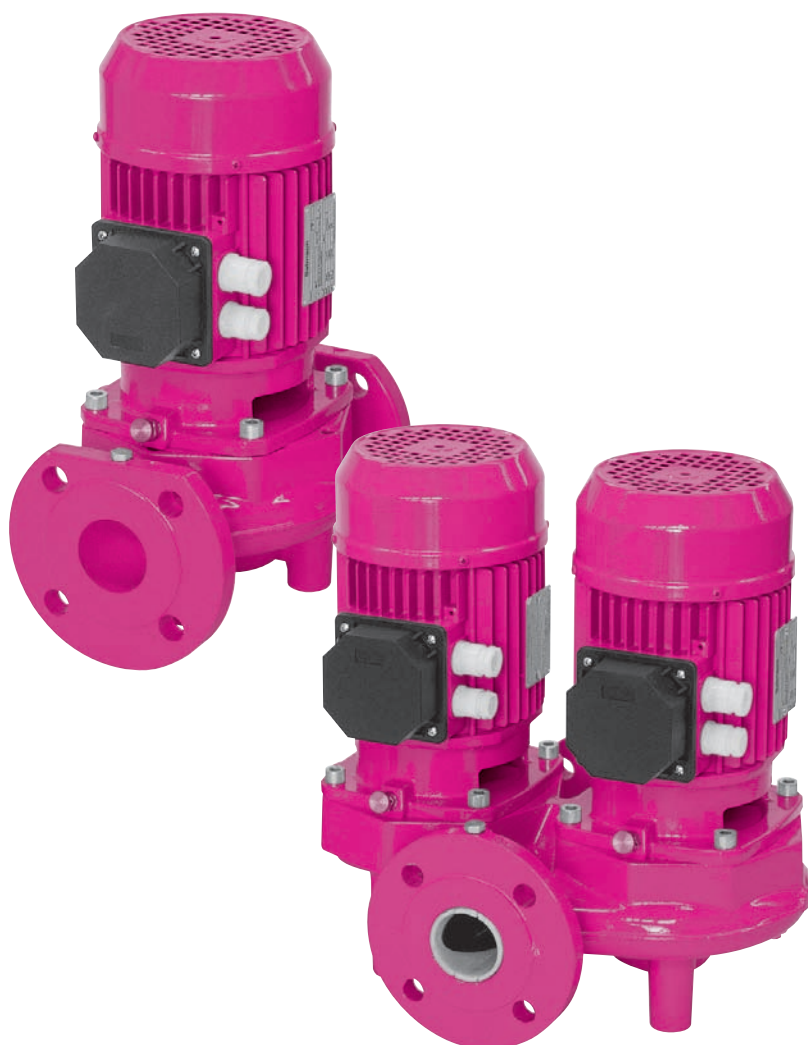
APPLICAZIONI

Impianti civili e collettivi di:

- ✓ Riscaldamento
- ✓ Climatizzazione
- ✓ Ricircolo acqua calda sanitaria.

Numerose applicazioni in impianti industriali e agricoli.

- ✓ Riscaldamento in serre.
- ✓ Pompaggio di acqua e glicole.
- ✓ Circolazione di acqua refrigerata



✓ LRL - JRL Motore elettrico verticale

LRL-JRL

VANTAGGI

- ✓ Montaggio diretto sulla tubazione sia in orizzontale che in verticale
- ✓ Dispositivo di degasazione permanente della tenuta meccanica
- ✓ Installazione facile e veloce
- ✓ Manutenzione nulla

JRL

- ✓ Disponibilità permanente di un motore di ricambio
- ✓ Funzionamento in parallelo P+P (2 pompe in funzione) con prestazioni idrauliche aumentate
- ✓ Commutazione automatica e manuale del motore con modulo di controllo "MGP" (optional)

CONCEZIONE

✓ Parte Idraulica

- ▶ Centrifuga monocellulare
- ▶ Attacchi flangiati PN 16
- ▶ Aspirazione e, mandata In-Line
- ▶ Flange equipaggiate con fori presa pressione G1/8"
- ▶ Girante equilibrata idraulicamente e dinamicamente montata direttamente sull'albero
- ▶ Tenuta idraulica sull'albero con tenuta meccanica
- ▶ **JRL** pompa gemellare con corpo unico separato idraulicamente con clapet silenzioso

✓ Motore

Ad albero allungato cuscinetti sovradimensionati per un funzionamento silenzioso

Velocità: 1450 e 2900 giri/min

Avvolgimento:

<3kW Δ Trifase 230V; 50Hz

Υ Trifase 400V; 50Hz

>4kW Δ Trifase 400V; 50Hz

Isolamento: Classe F

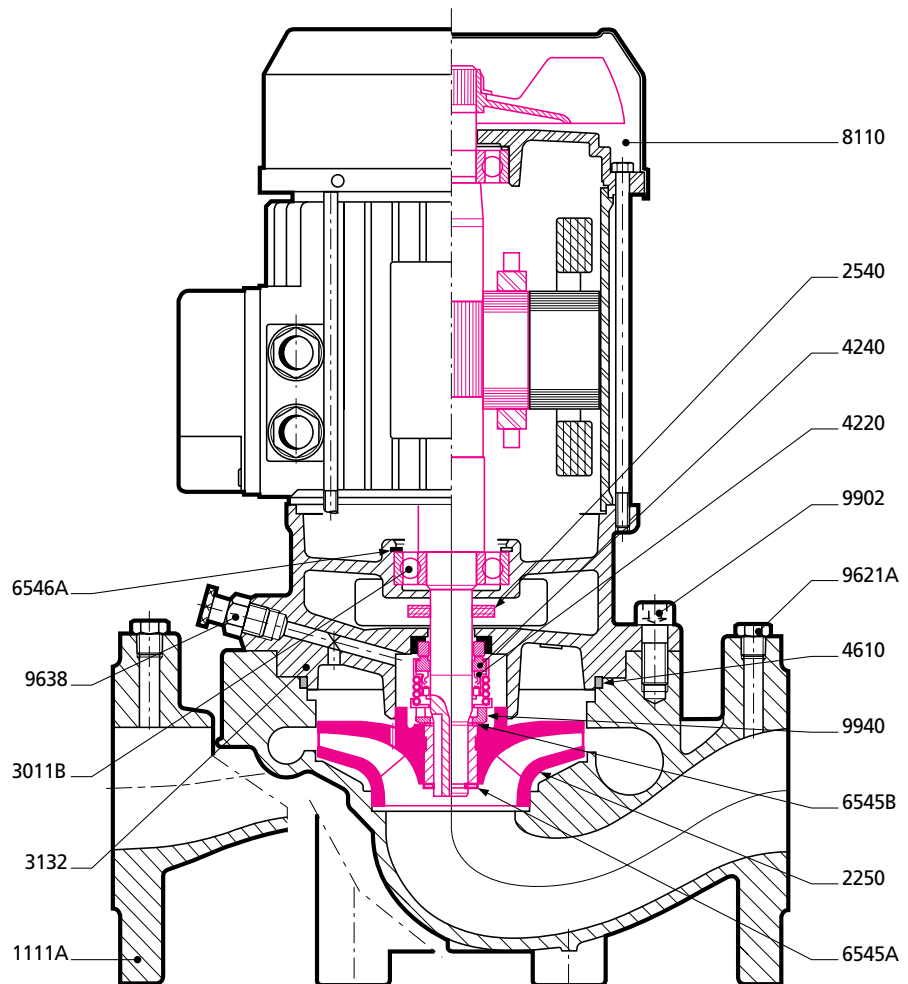
Indice di protezione: IP 55

Conformità CE: EN 809

Opzioni :

- ▶ 60 Hz... (Consultarci...)

LRL - SEZIONE ELETTROPOMPA



CONSTRUZIONE DI BASE

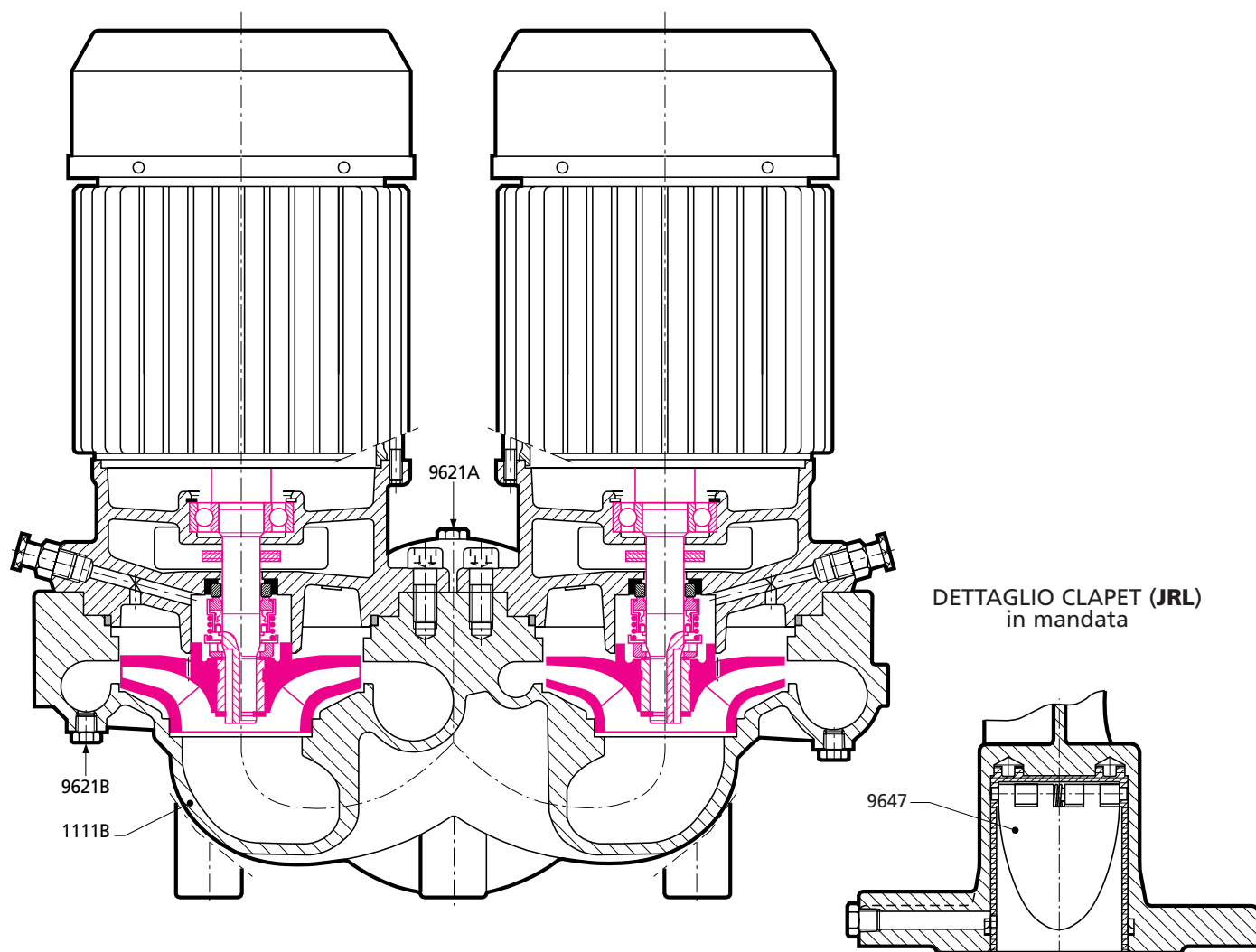
Parti principali	Materiali
Corpo pompa	Ghisa FGL250
Girante	Polipropilene
Lanterna	Ghisa FGL250
Albero	Acciaio Inox Z20-C13
Tenuta meccanica	Graphite Carburo Si/EP
Guarnizione	Etilene-Propilene

IDENTIFICAZIONE SIGLA

LRL 2 03 -13 /1.1
JRL 4 05-15/0.55

LRL=Pompa singola
JRL=Pompa gemellare
2=2 poli 2900 giri/min
4=4poli 1450 giri/min
Ø nominale attacchi
Ø nominale girante
P2 potenza in kW

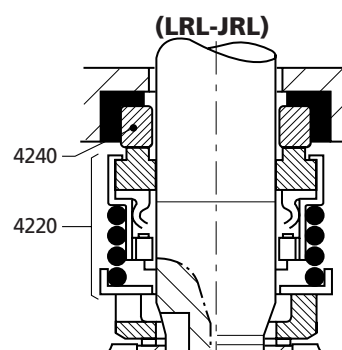
JRL - SEZIONE ELETTROPOMPA



NOMENCLATURA (COMUNE LRL - JRL)

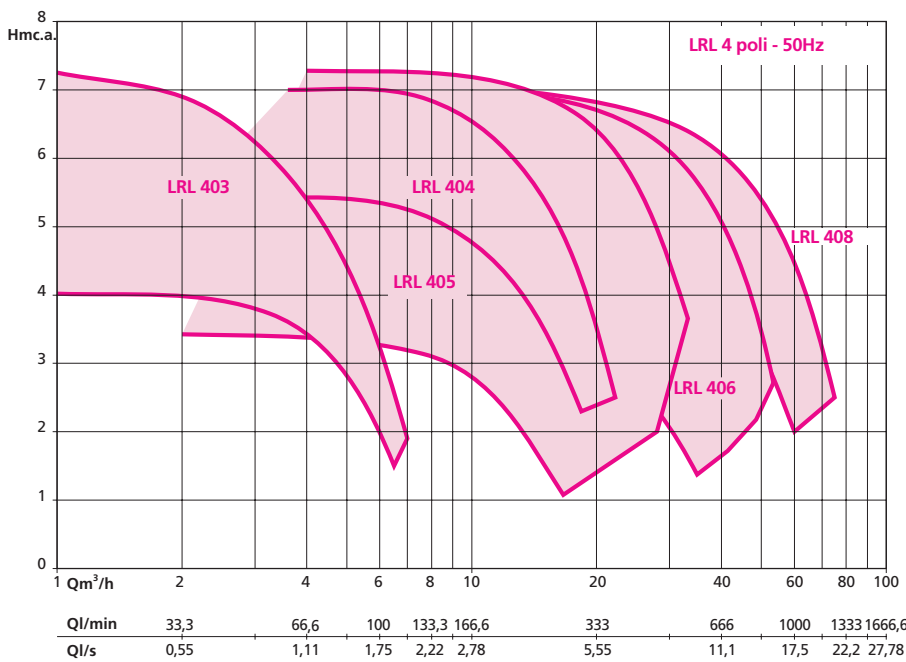
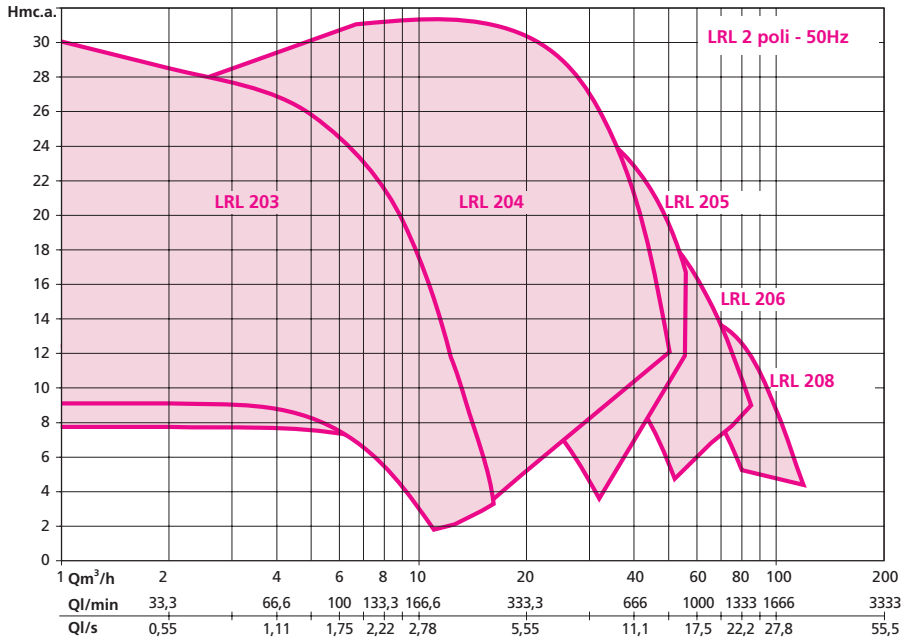
- | | |
|-------------------------------------|------------------------------------|
| ✓ 1111A Corpo pompa singola | ✓ 6546A Circlips della girante |
| ✓ 1111B Corpo pompa gemellare | ✓ 8110H Motore elettrico |
| ✓ 2250 Girante | ✓ 9621A Tappo foro presa pressione |
| ✓ 2540 Deflettore | ✓ 9621B Tappo di riempimento (JRL) |
| ✓ 3011B Cuscinetto a sfera di guida | ✓ 9638 Degasatore tenuta meccanica |
| ✓ 3132H Lanterna cuscinetto | ✓ 9647H Clapet (JRL) |
| ✓ 4220H Tenuta meccanica (mobile) | ✓ 9902H Vite fissaggio lanterna |
| ✓ 4240H Tenuta meccanica (fissa) | ✓ 9940H Fermo tenuta meccanica |
| ✓ 4610H Guarnizione corpo pompa | (✓) Parti di ricambio consigliate |
| ✓ 6545A Circlips albero | |
| ✓ 6545B Circlips albero | |

TENUTA MECCANICA



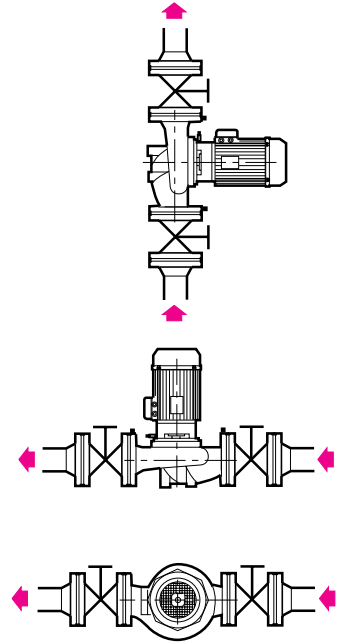
LRL-JRL

LRL - DIAGRAMMA DI PRESELEZIONE

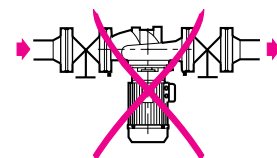
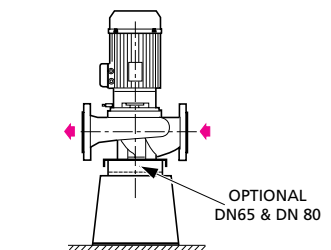


POSIZIONE DI MONTAGGIO

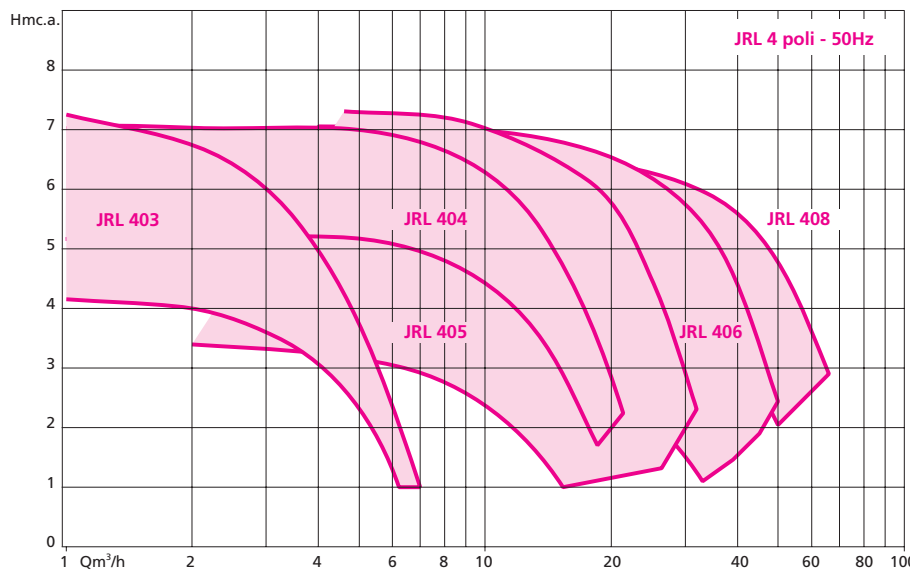
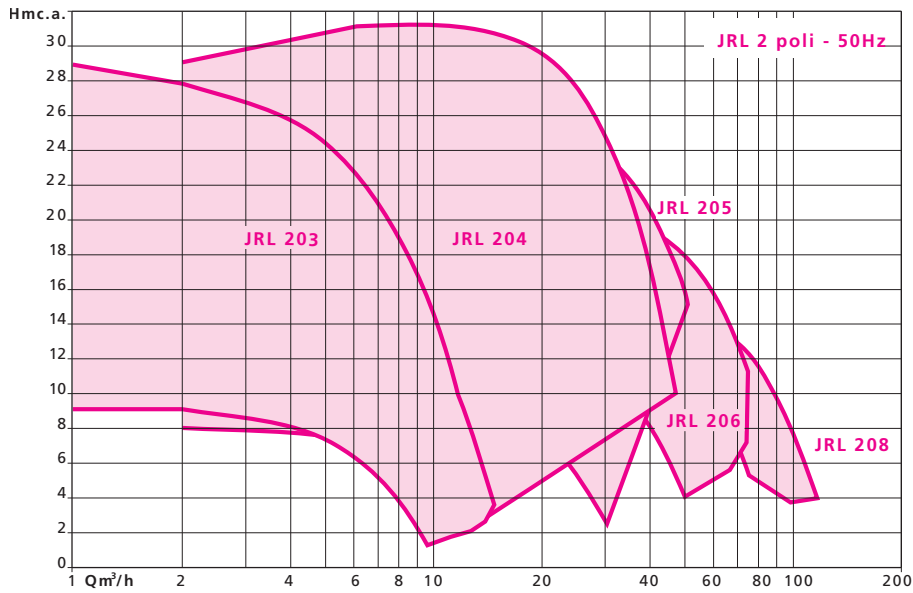
Montaggio diretto su tubazioni in orizzontale o in verticale



pompe DN 65 et 80
montaggio su basamento con
base di supporto in opzione



JRL - DIAGRAMMA DI PRESELEZIONE



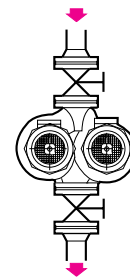
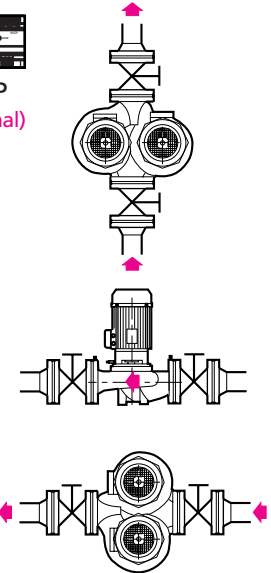
Prestazioni idrauliche riferite ad una sola pompa in funzione P/P

POSIZIONE DI MONTAGGIO

Montaggio diretto su tubazioni in orizzontale o in verticale



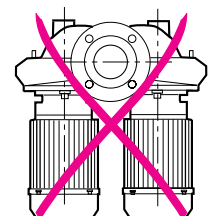
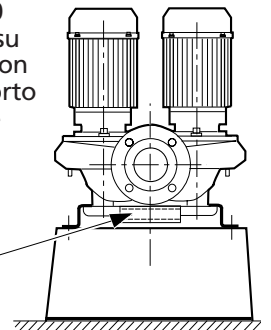
MGP (optional)

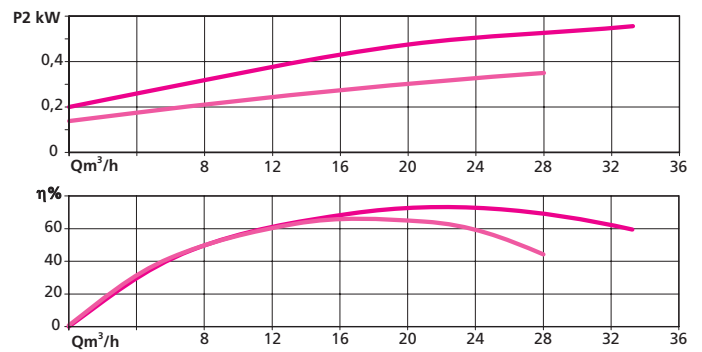
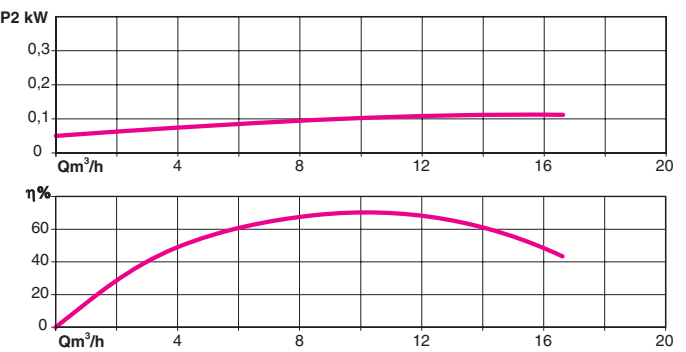
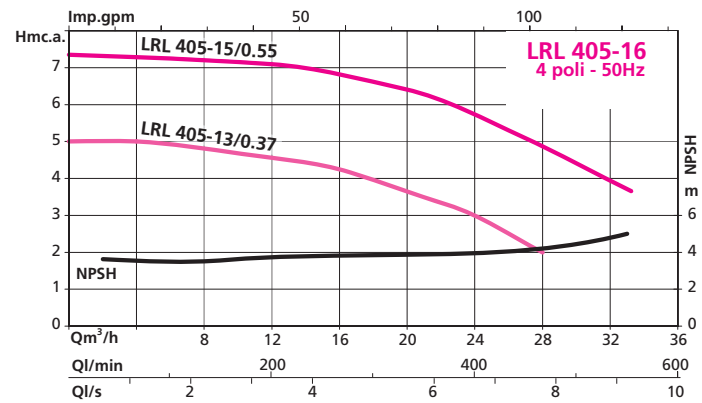
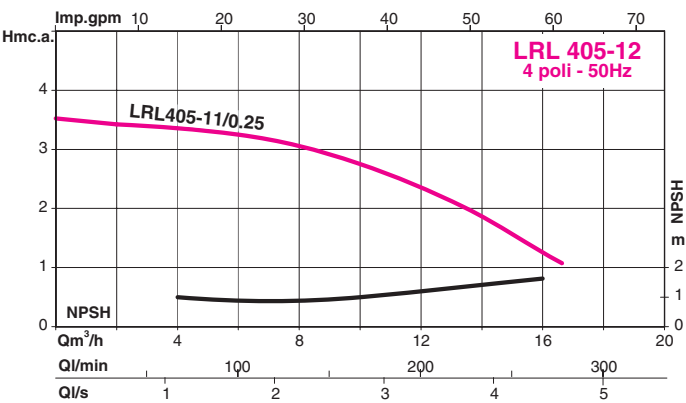
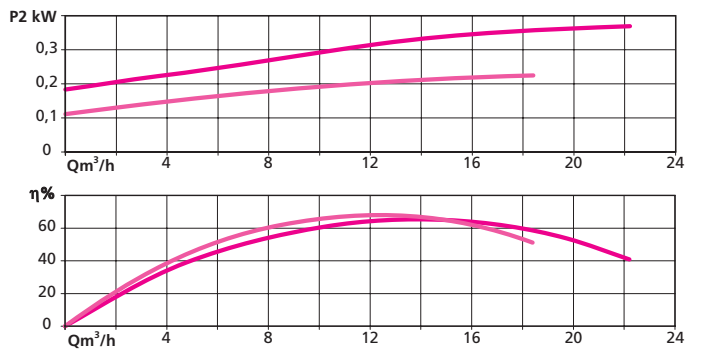
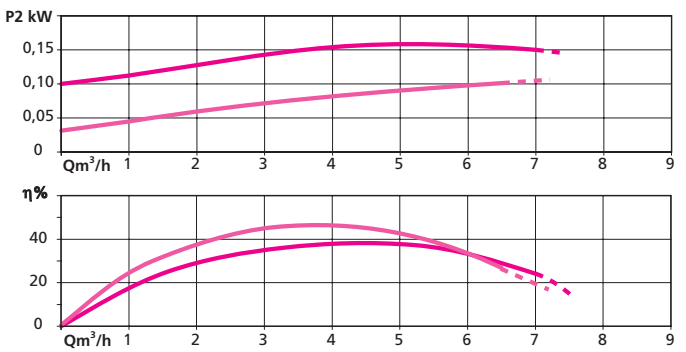
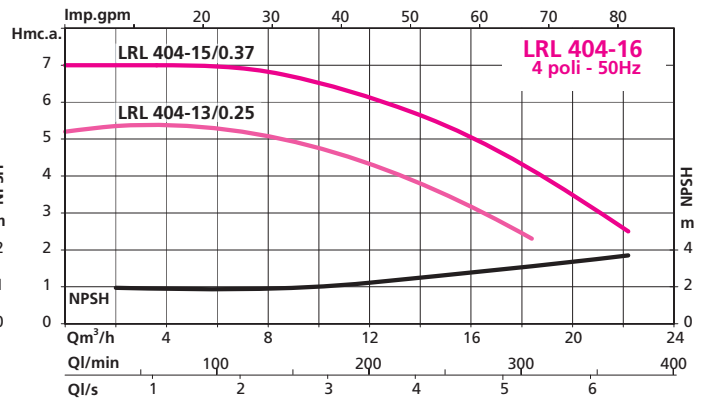
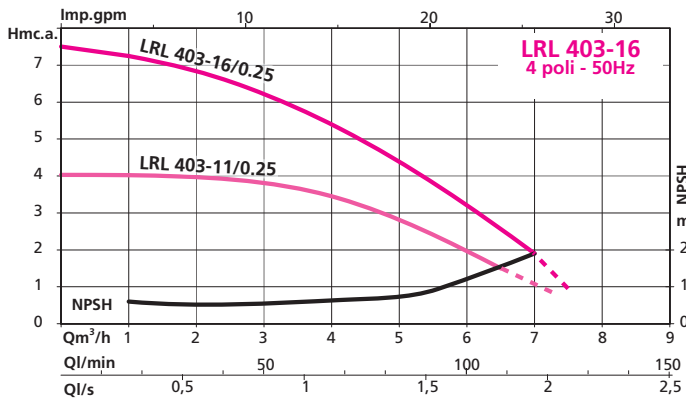


Posizione di montaggio consentita se previsto un funzionamento in alternanza delle pompe per evitare la formazione di eventuali sacche d'aria

pompe DN 65 e 80
montaggio su basamento con base di supporto in opzione

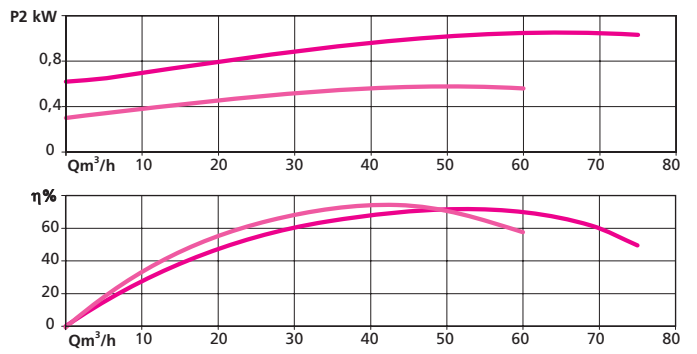
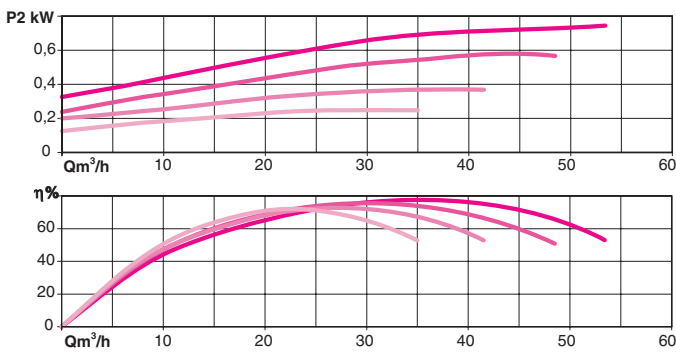
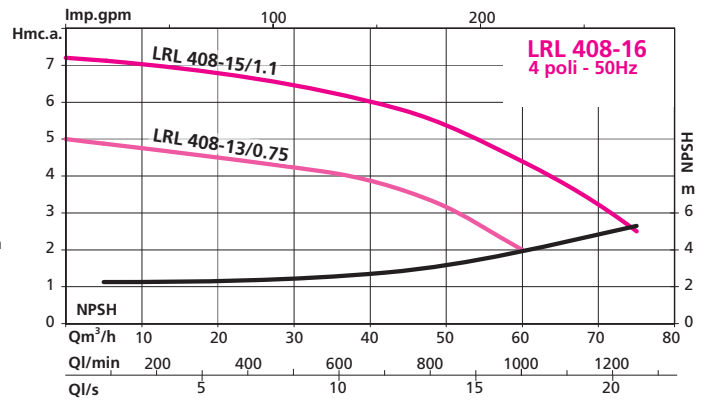
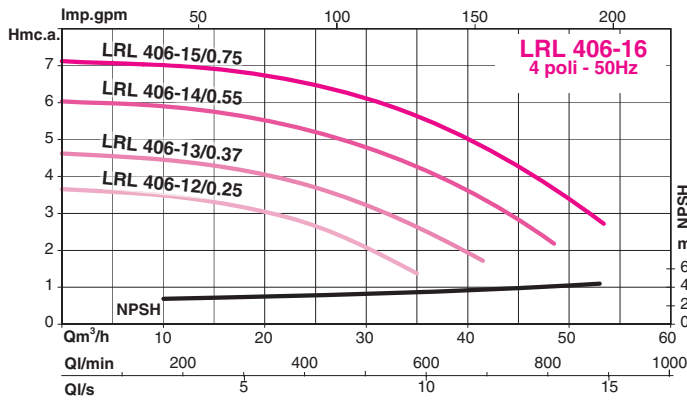
OPTIONAL
DN65 & DN 80



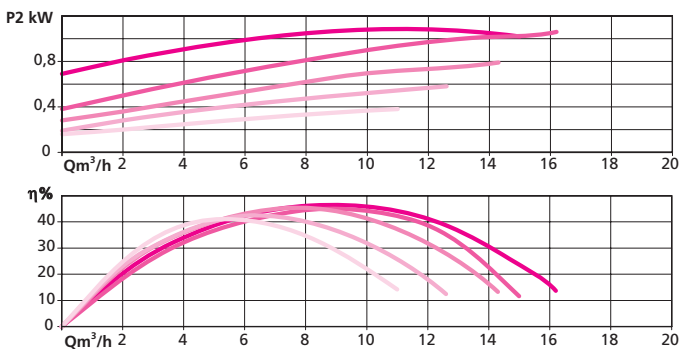
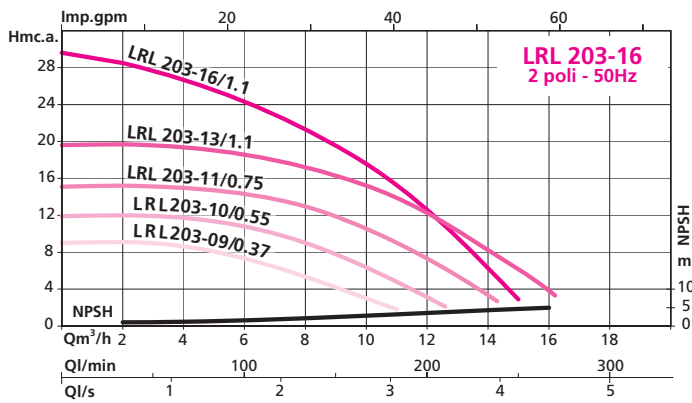


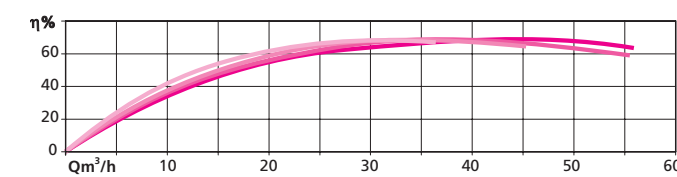
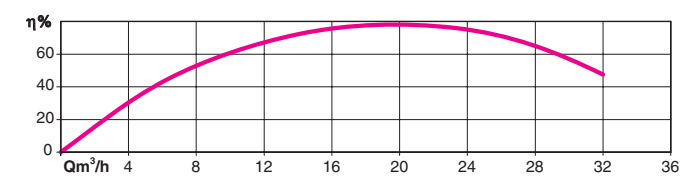
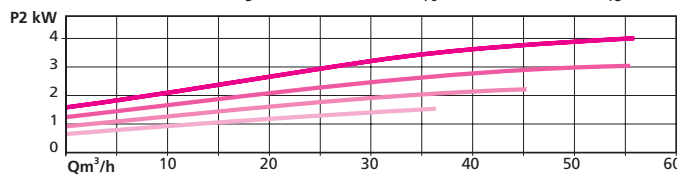
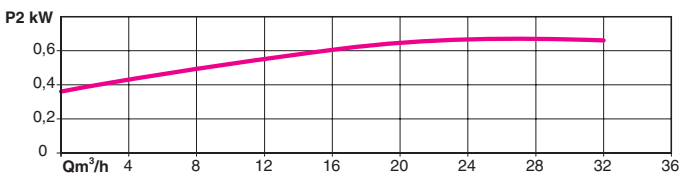
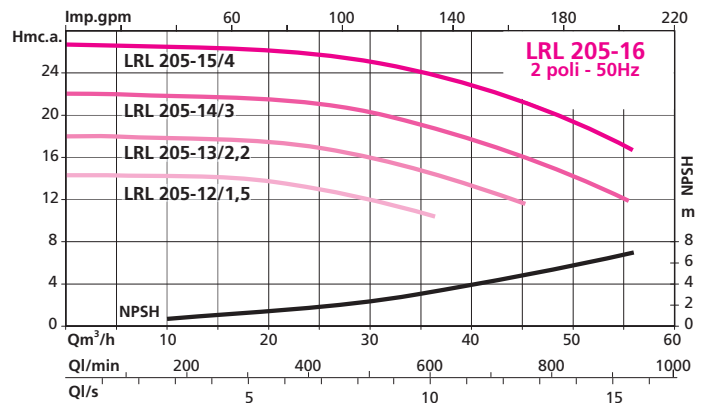
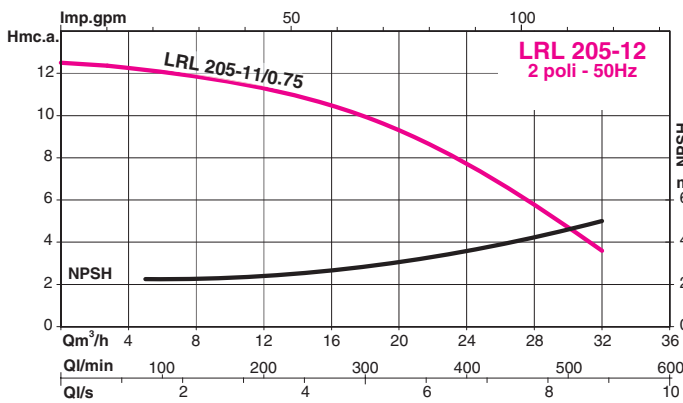
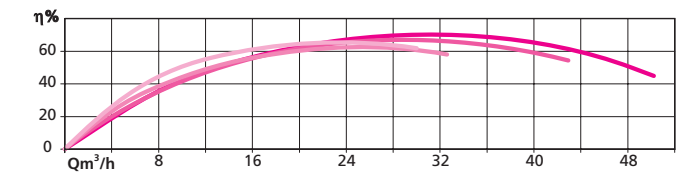
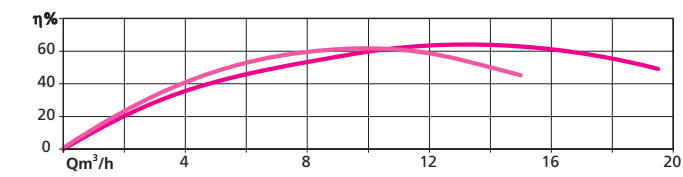
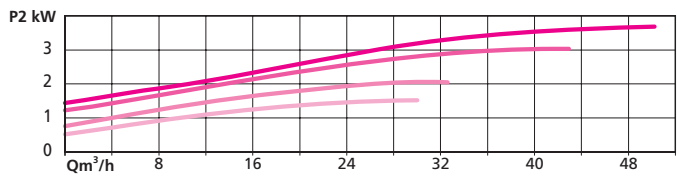
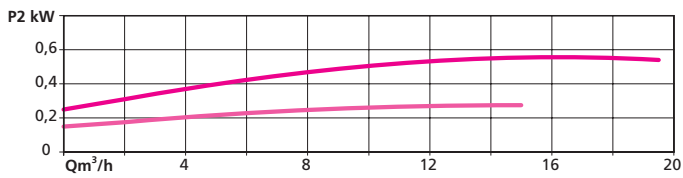
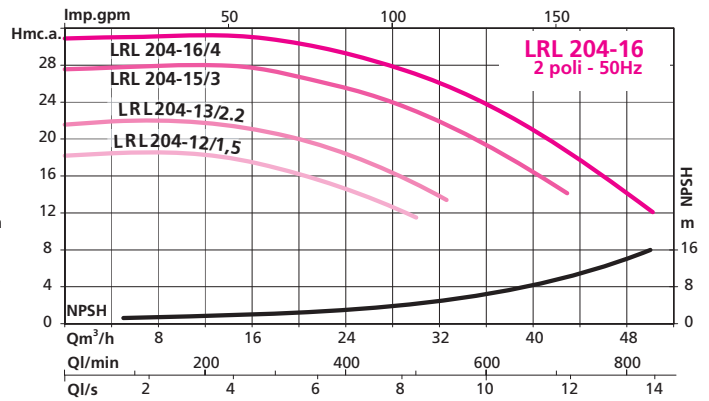
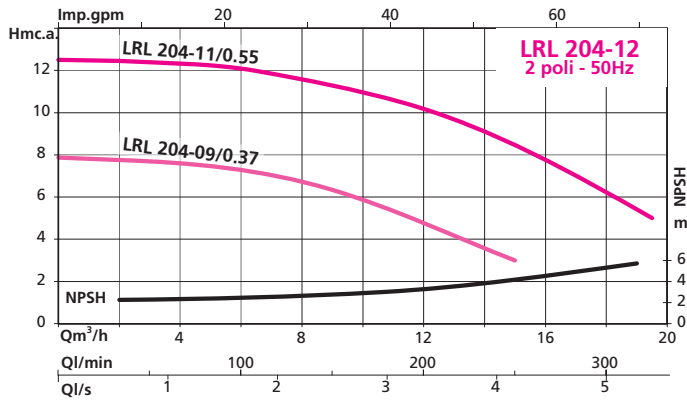
LRL 4 POLI

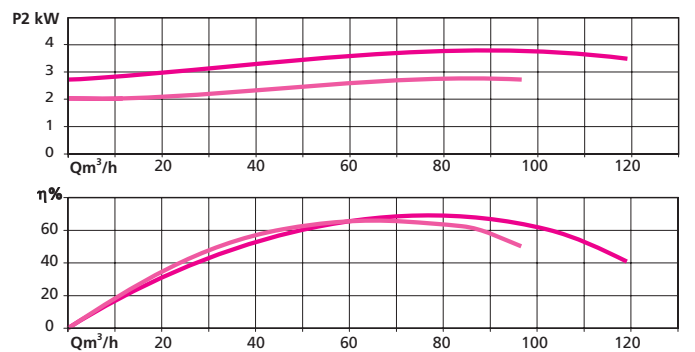
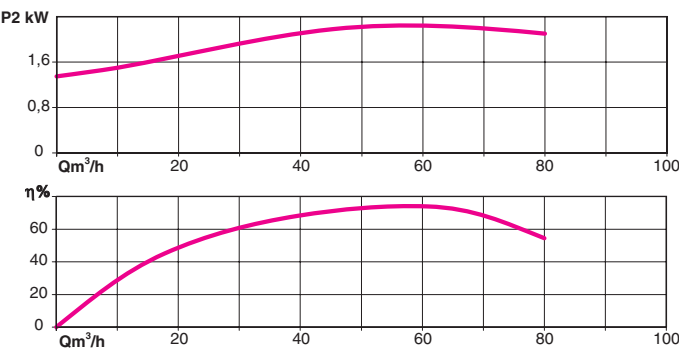
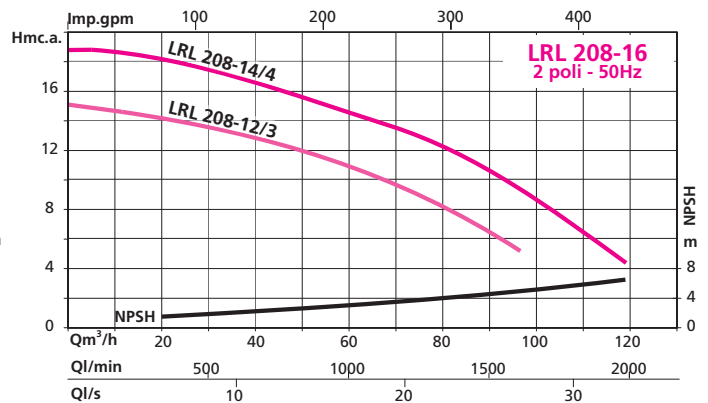
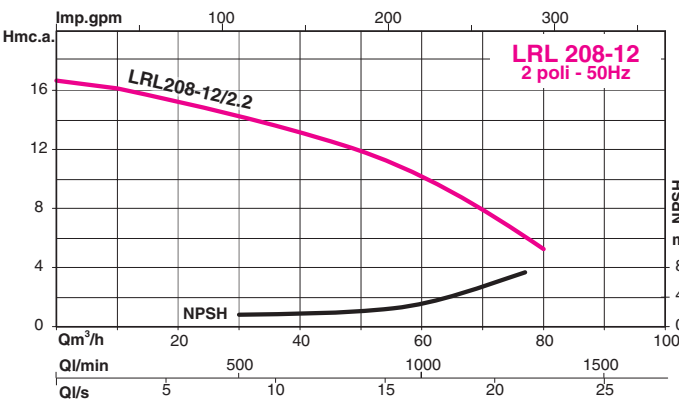
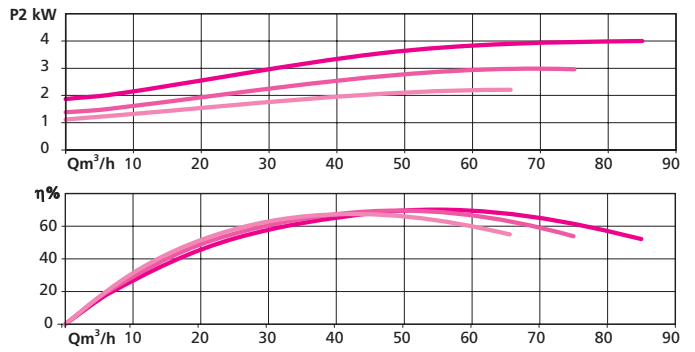
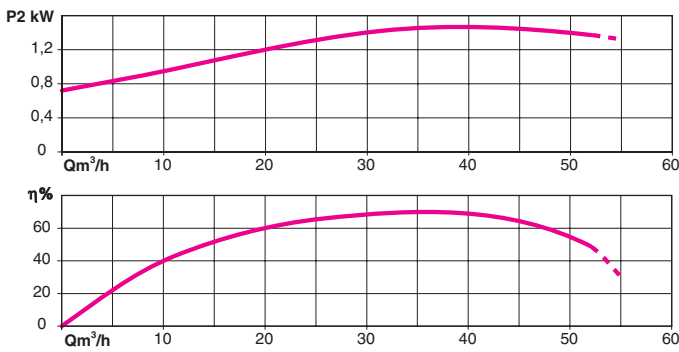
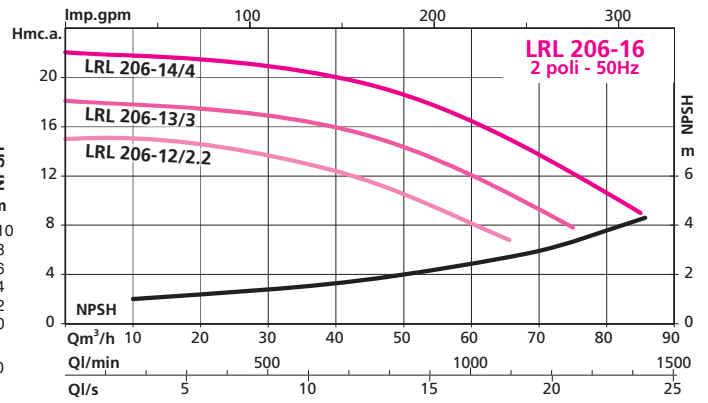
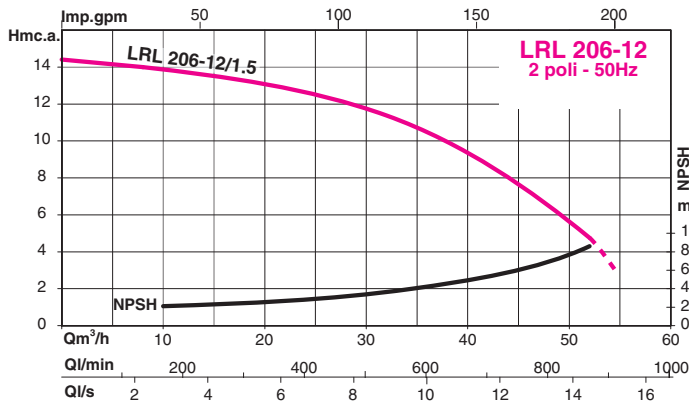
LRL-JRL

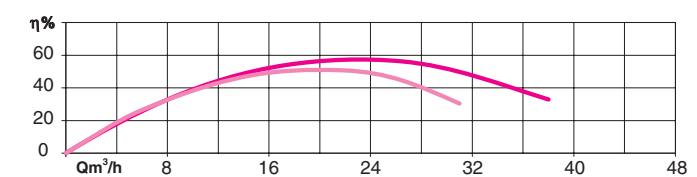
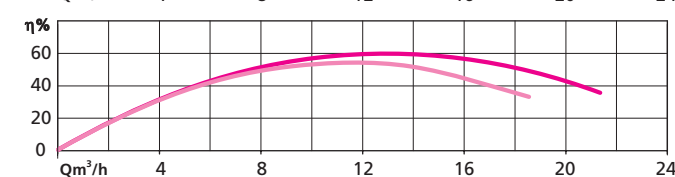
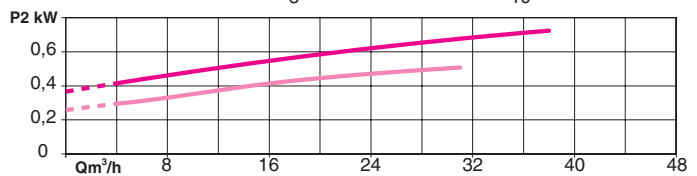
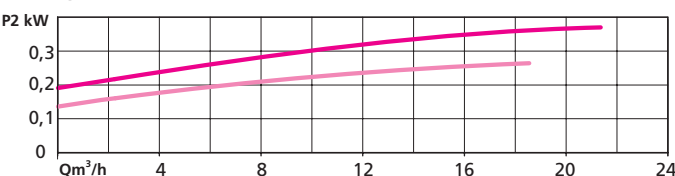
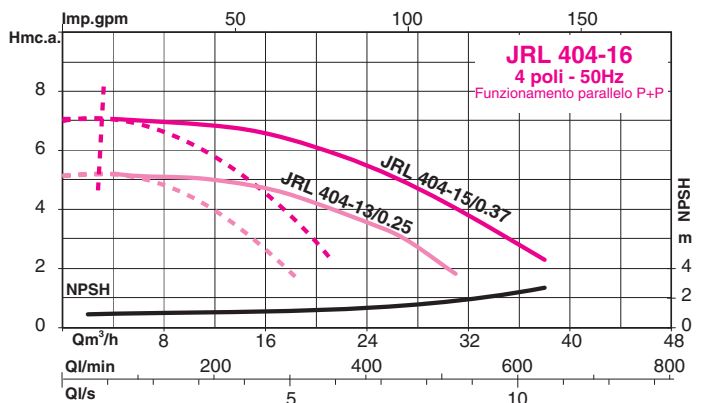
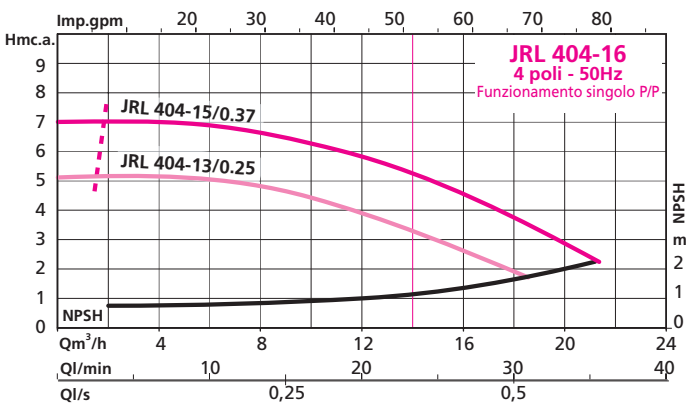
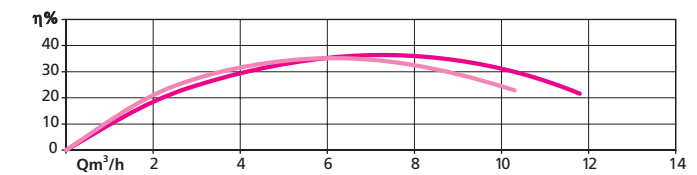
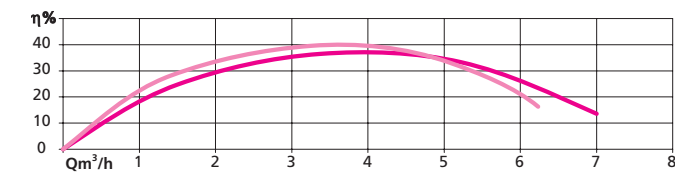
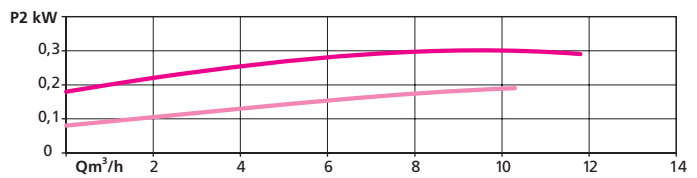
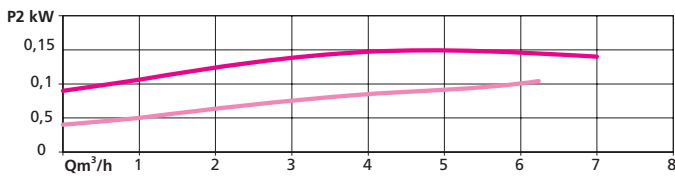
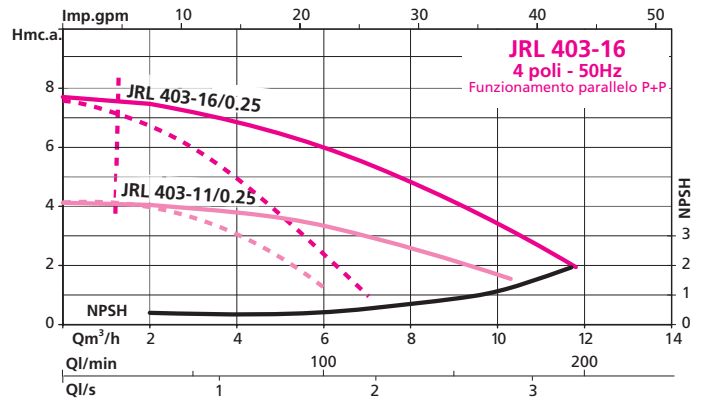
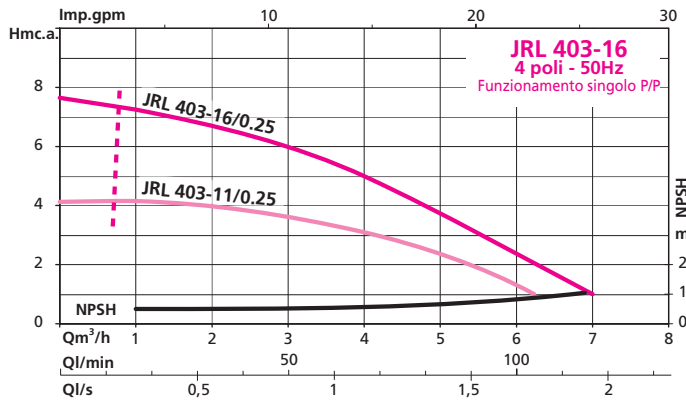


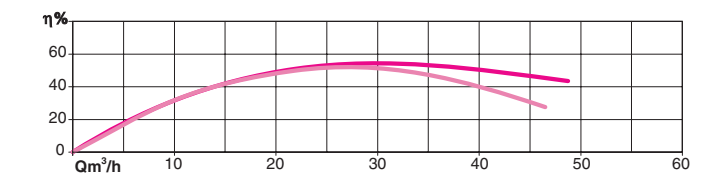
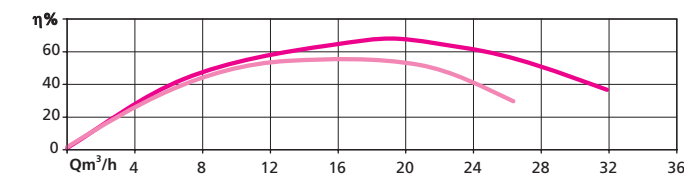
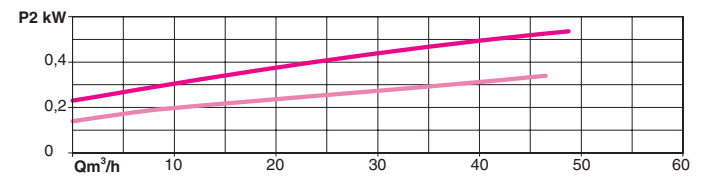
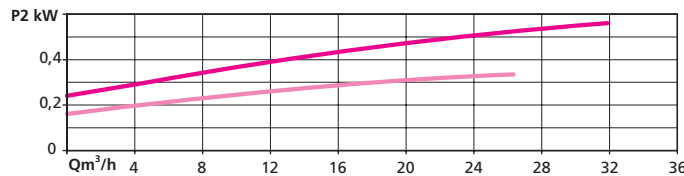
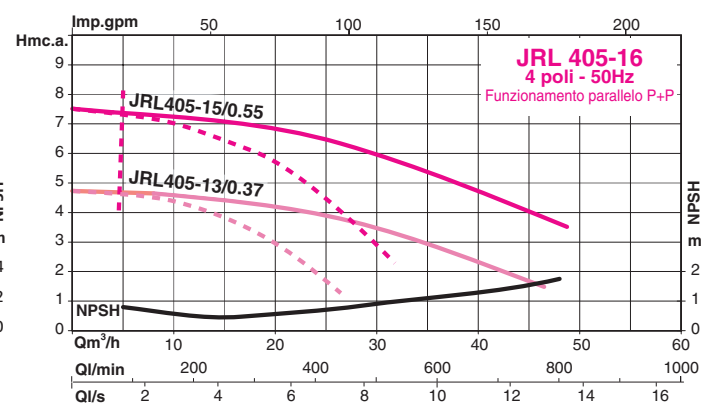
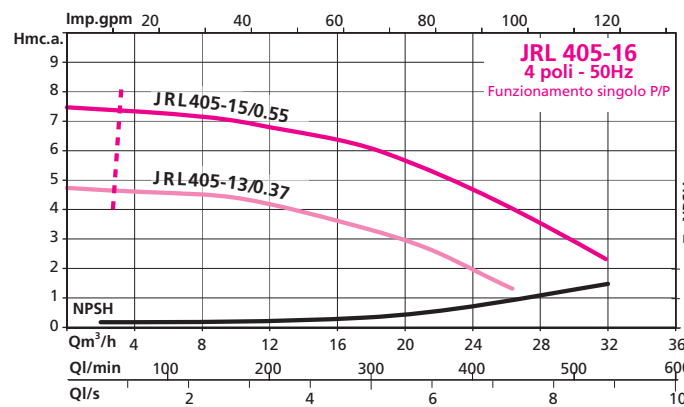
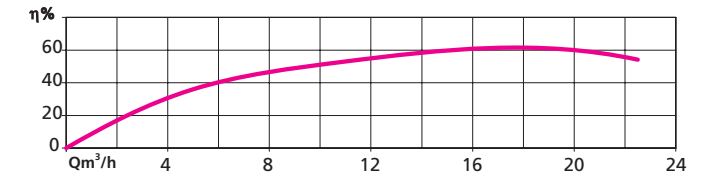
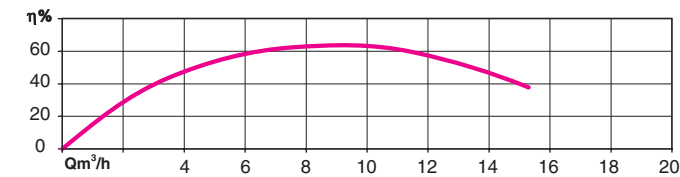
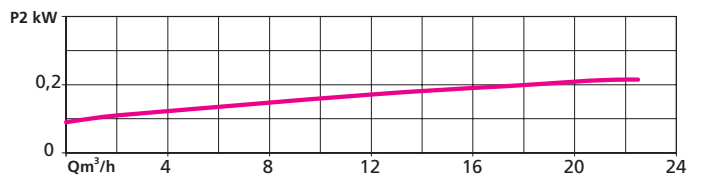
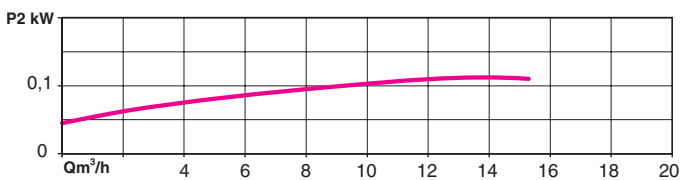
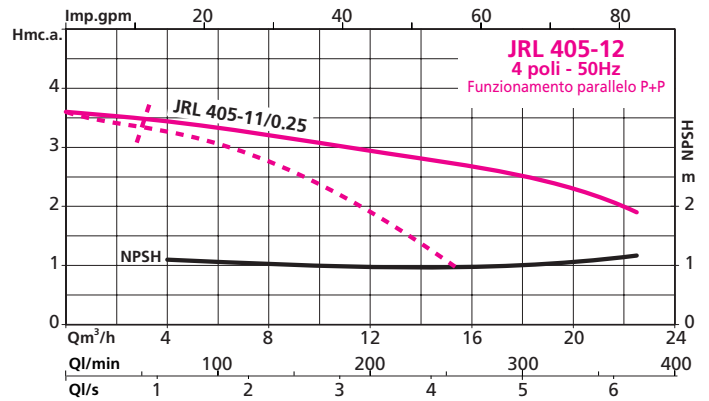
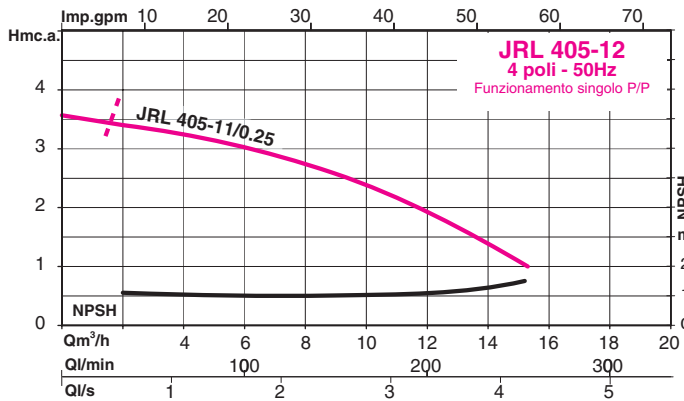
LRL 2 POLI

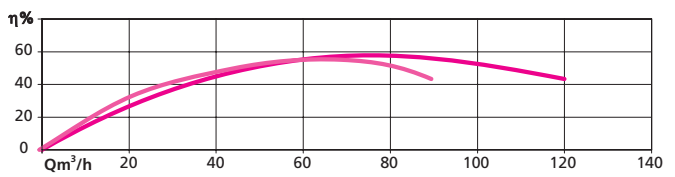
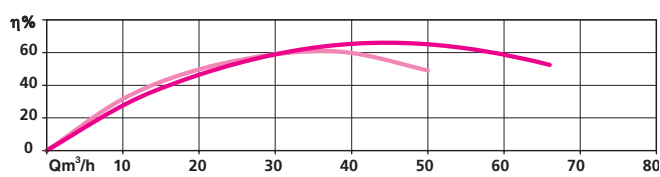
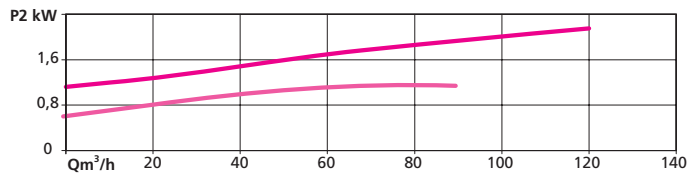
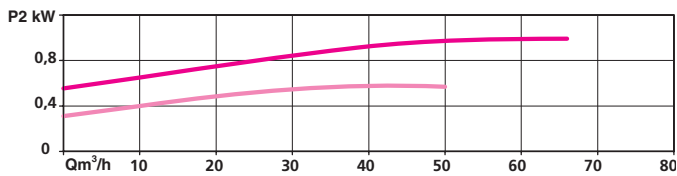
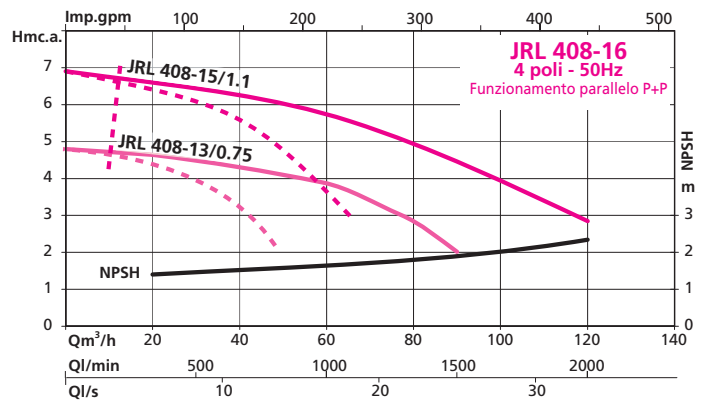
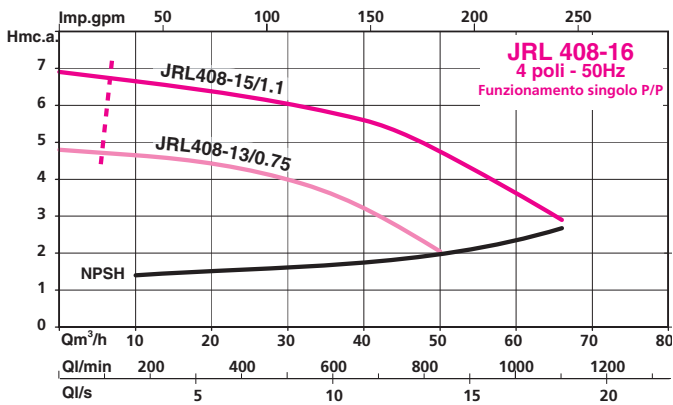
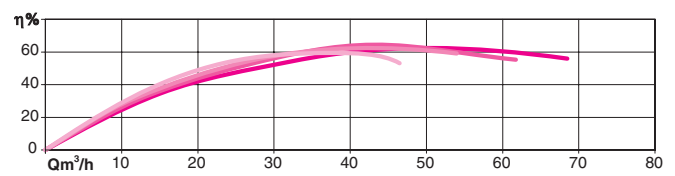
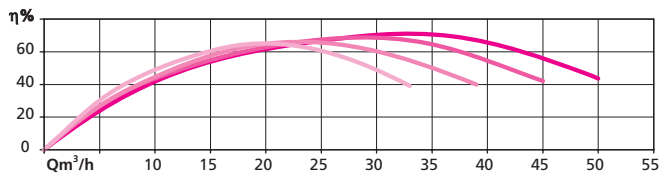
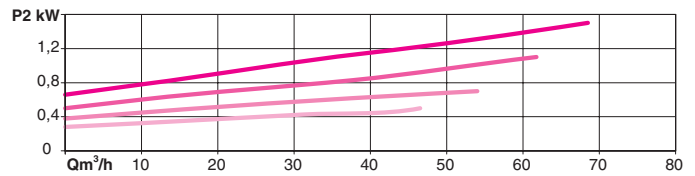
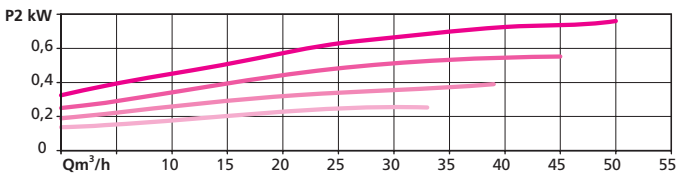
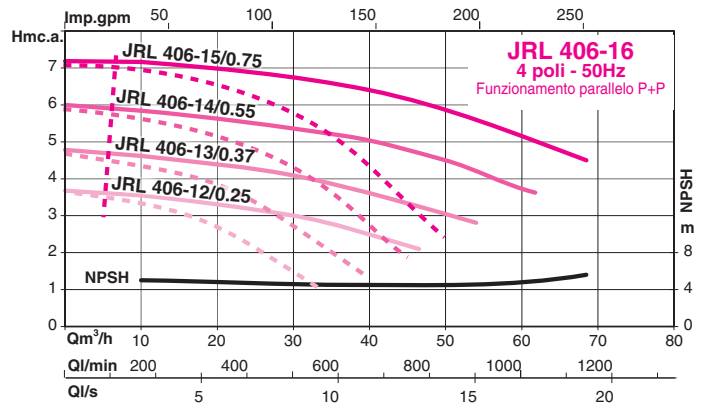
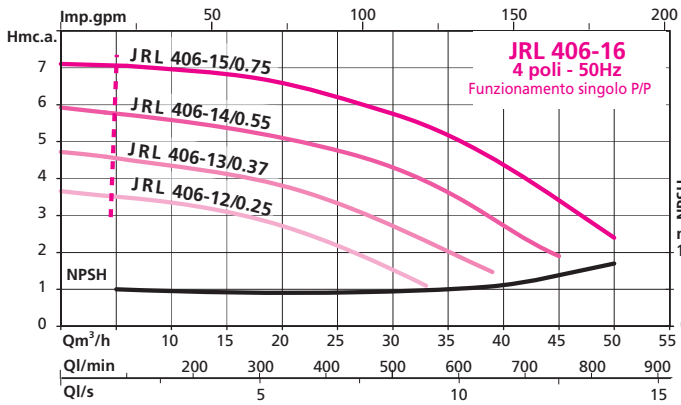


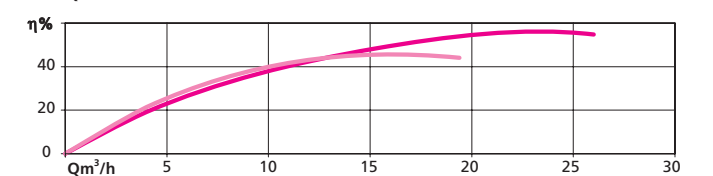
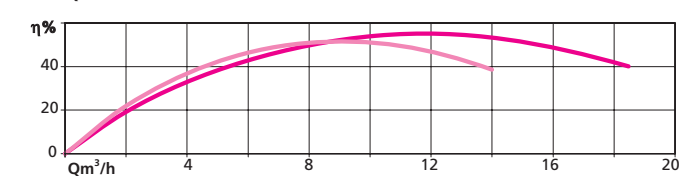
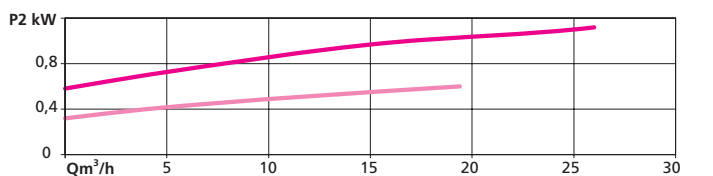
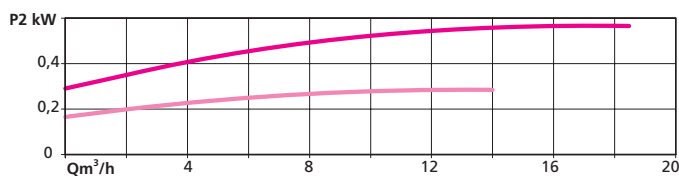
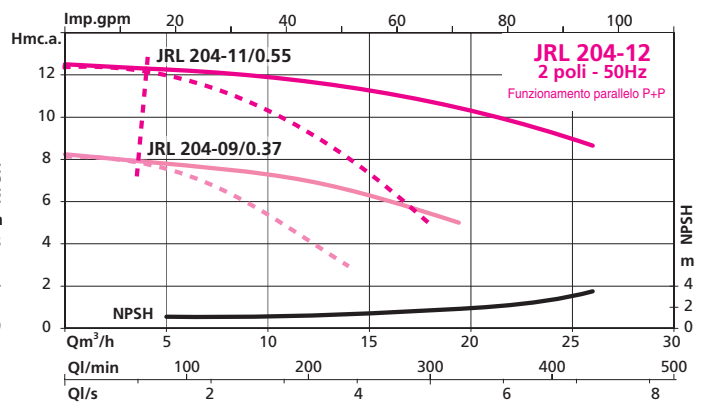
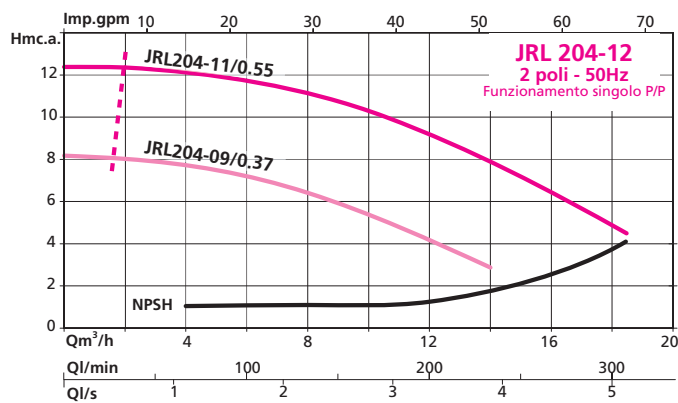
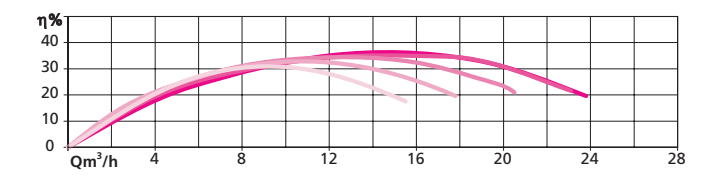
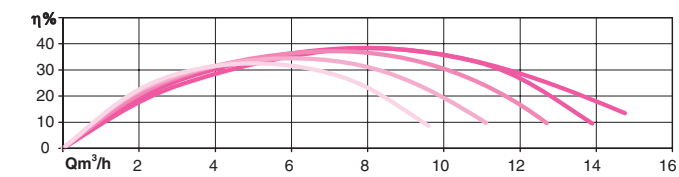
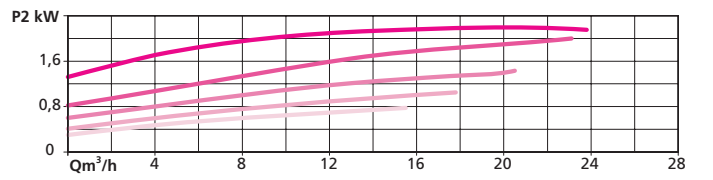
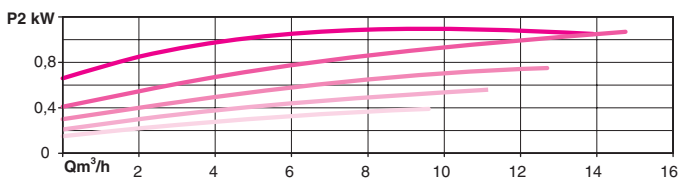
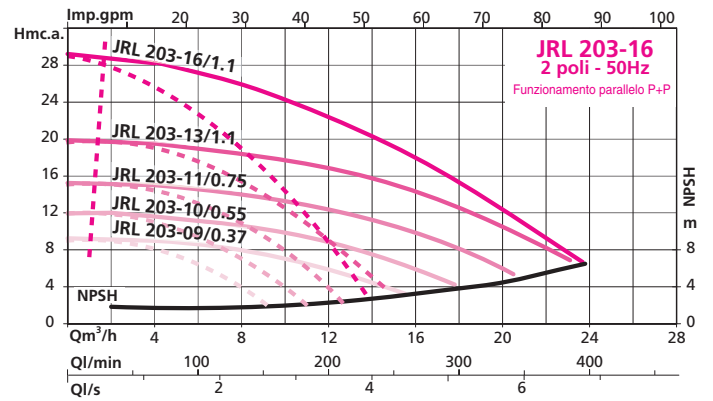
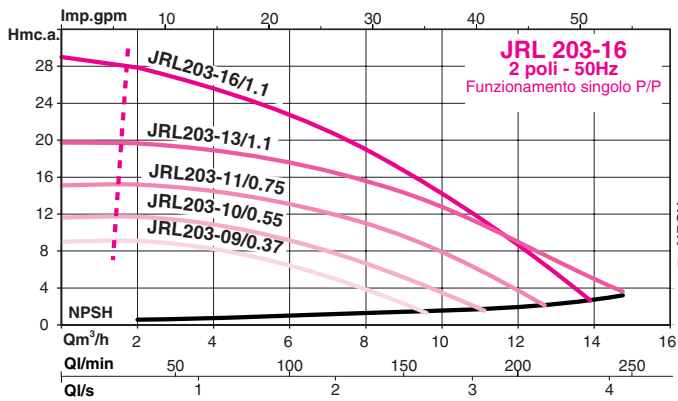


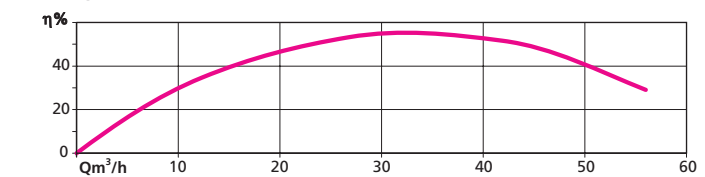
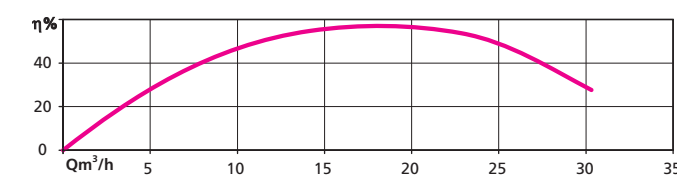
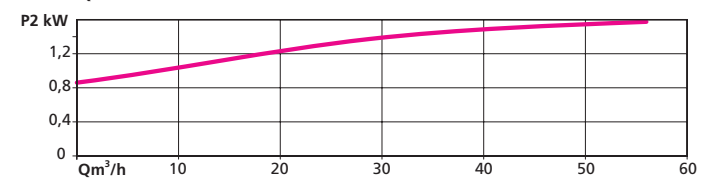
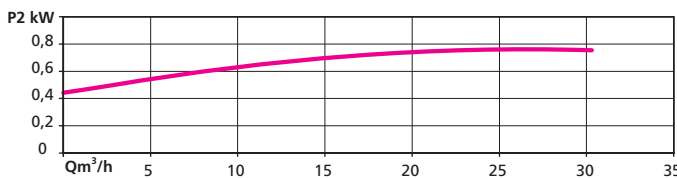
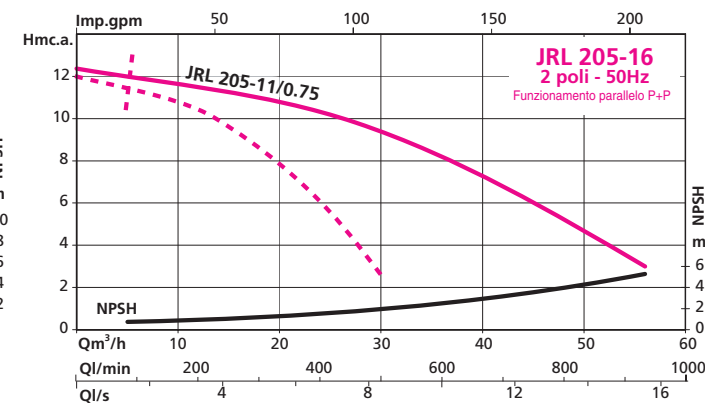
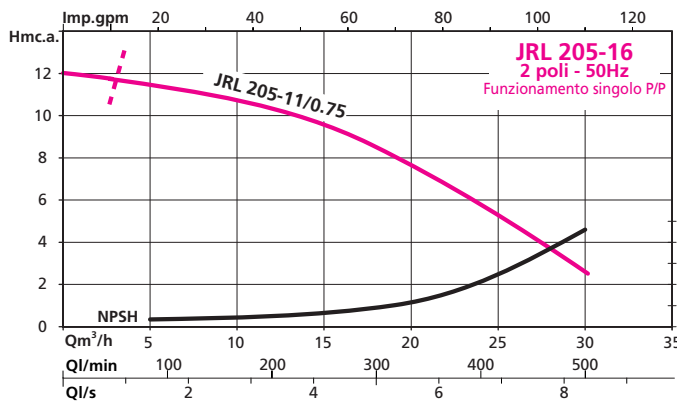
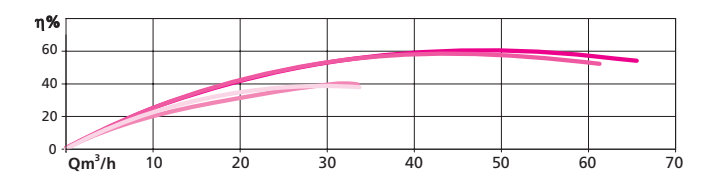
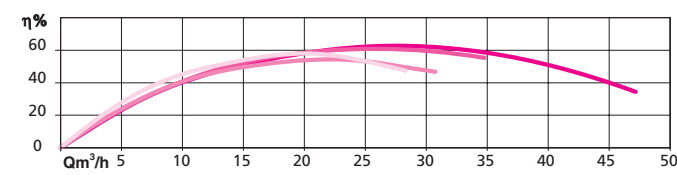
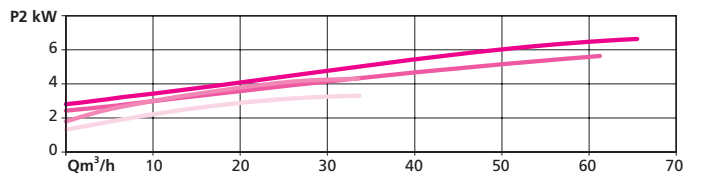
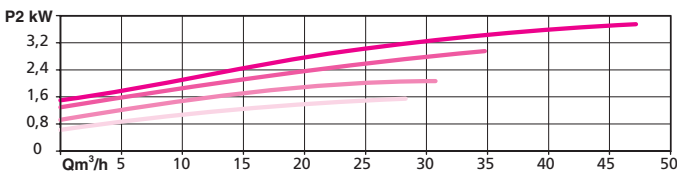
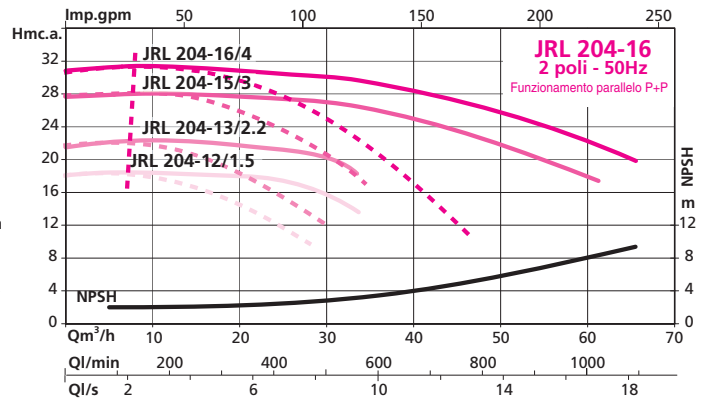
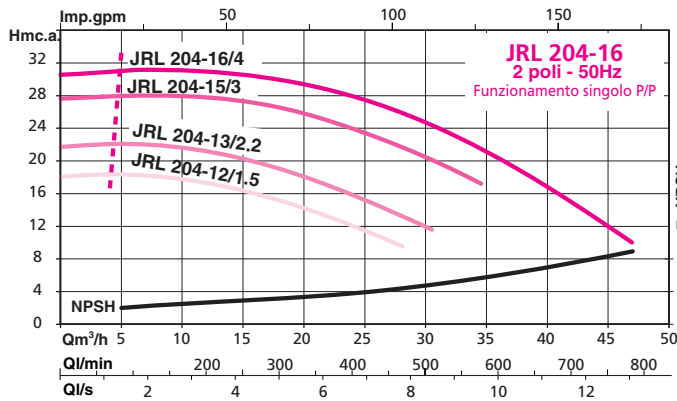


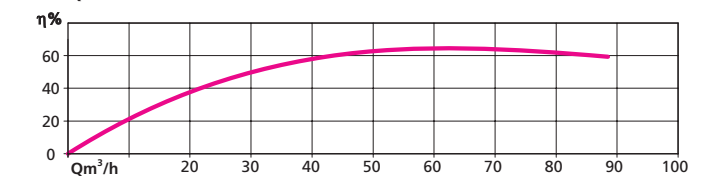
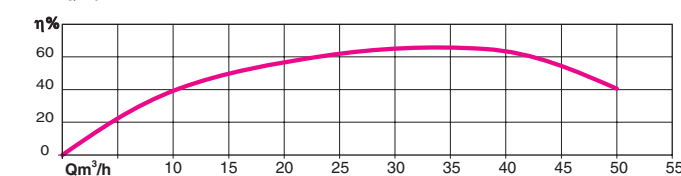
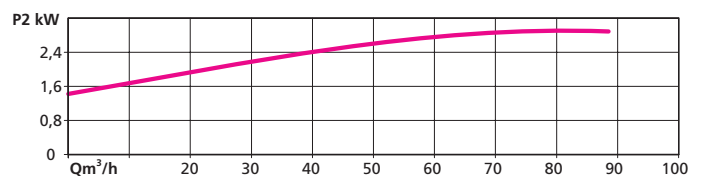
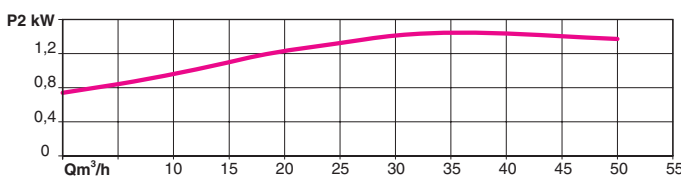
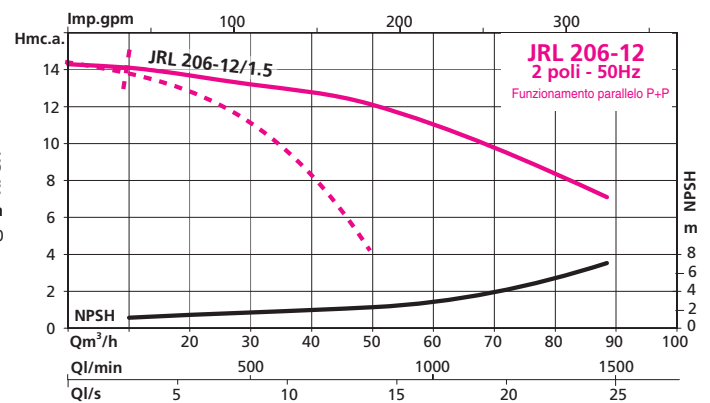
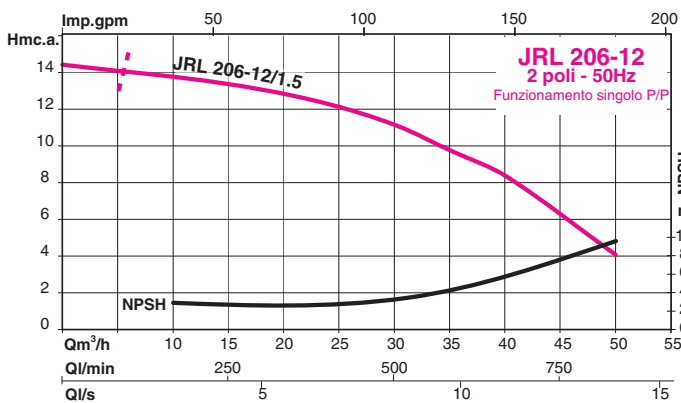
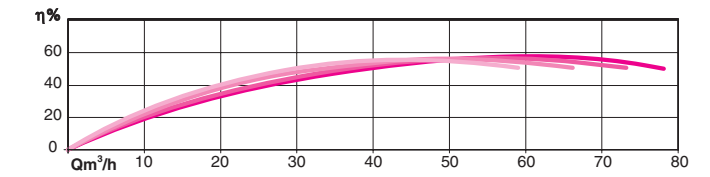
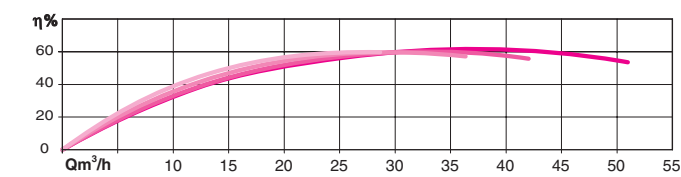
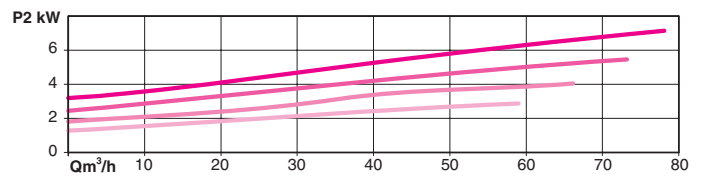
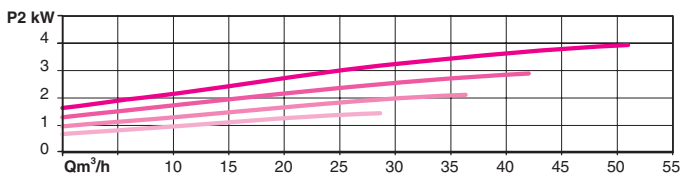
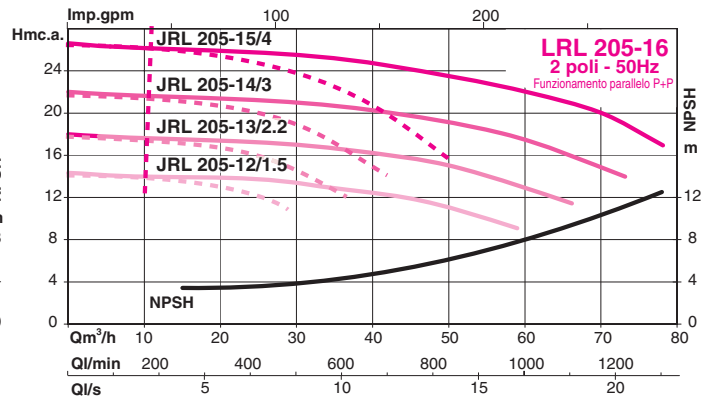
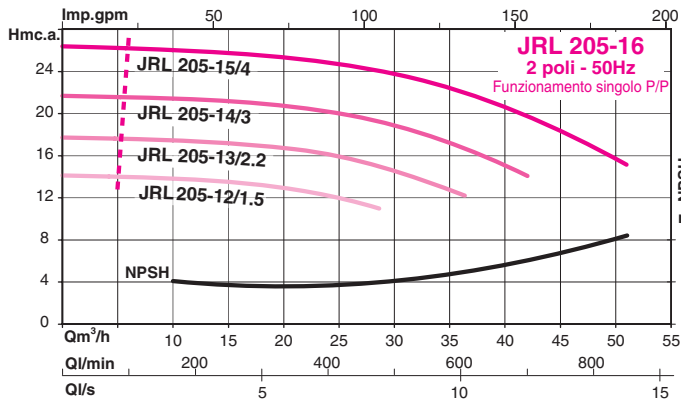


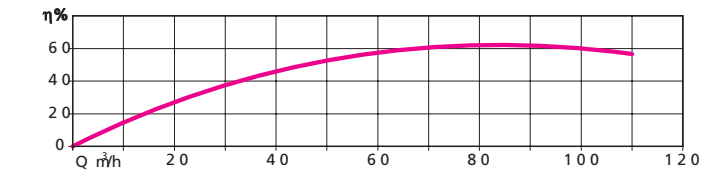
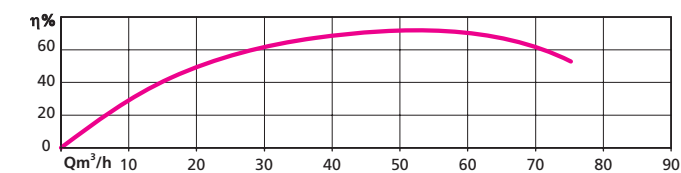
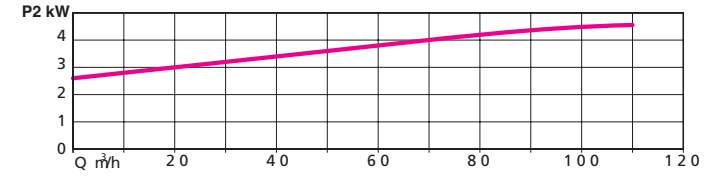
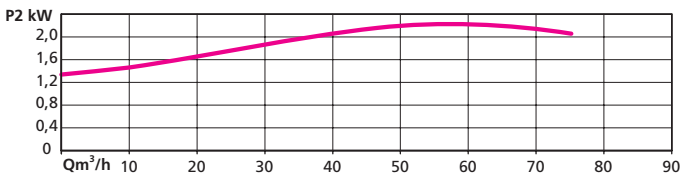
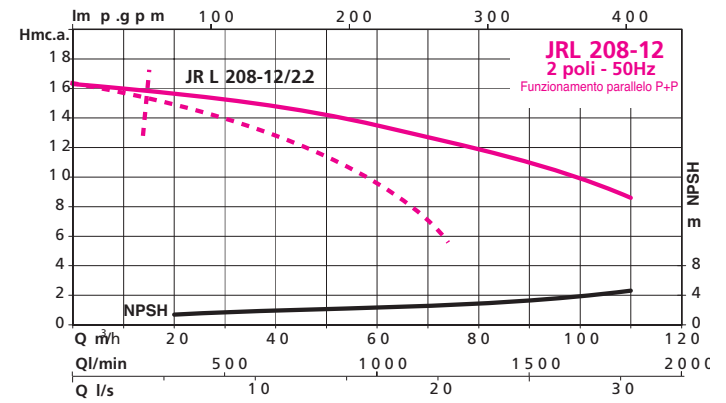
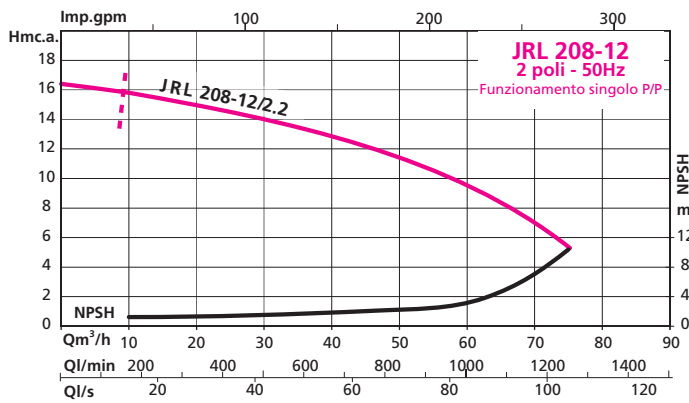
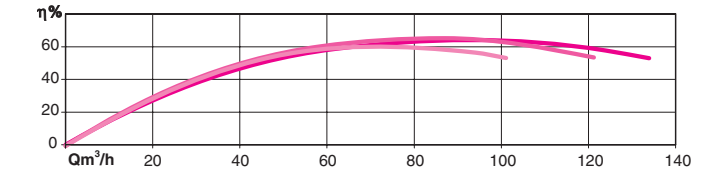
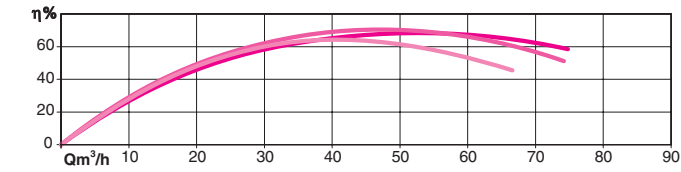
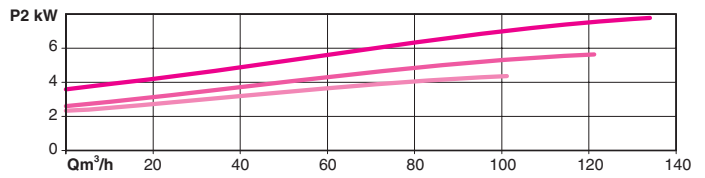
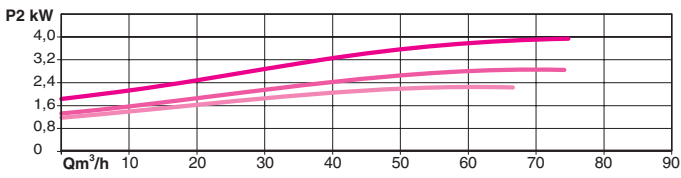
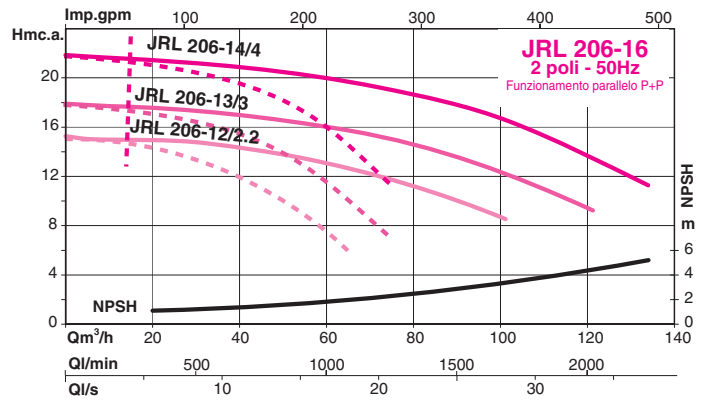
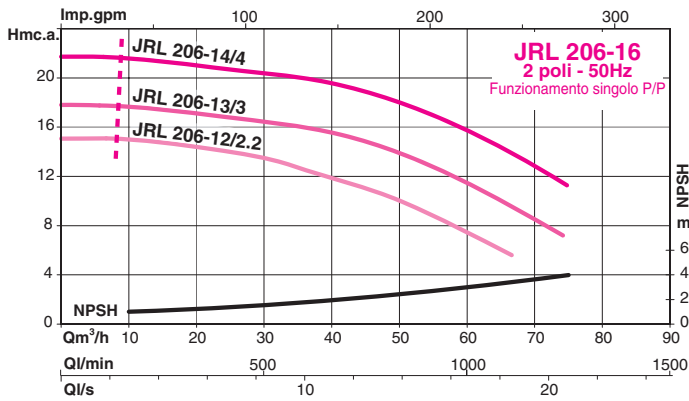


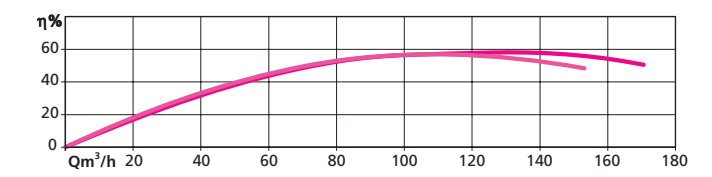
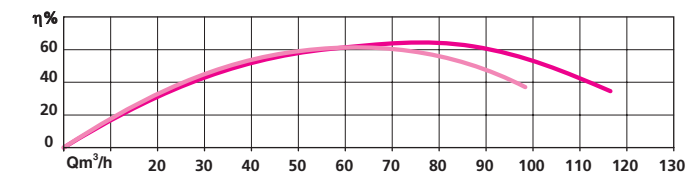
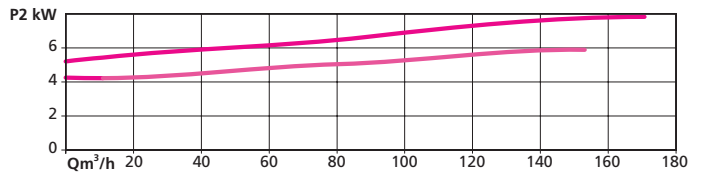
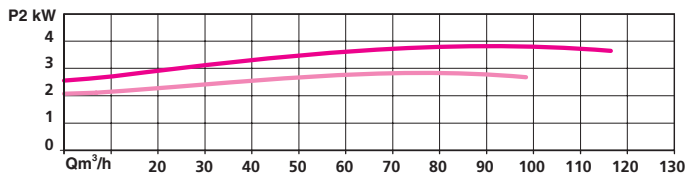
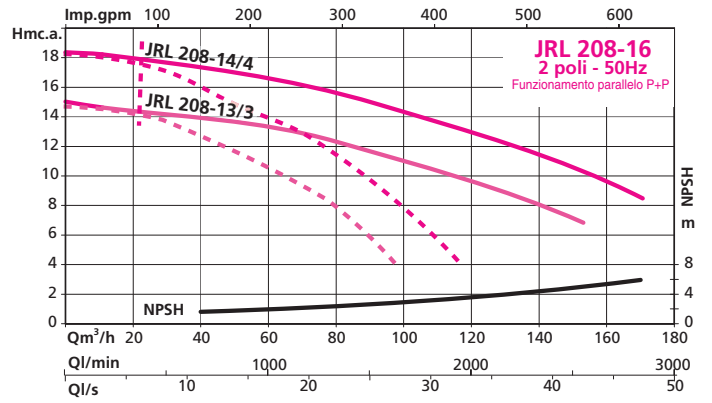
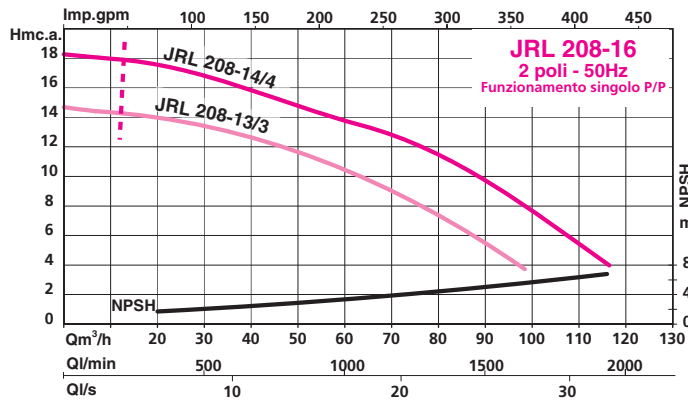




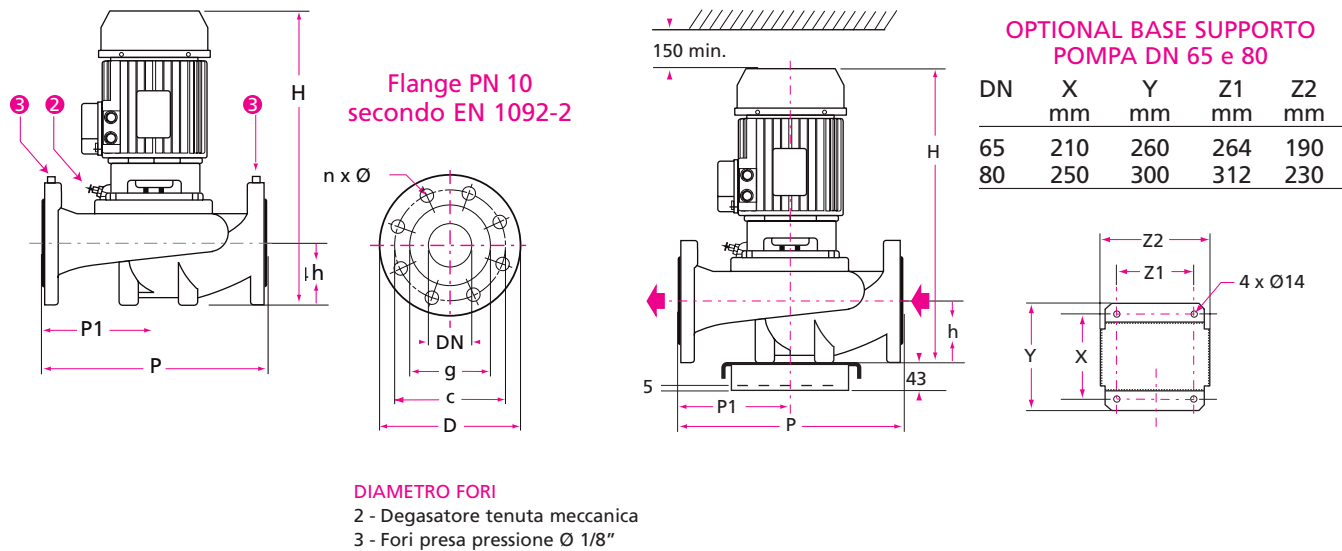






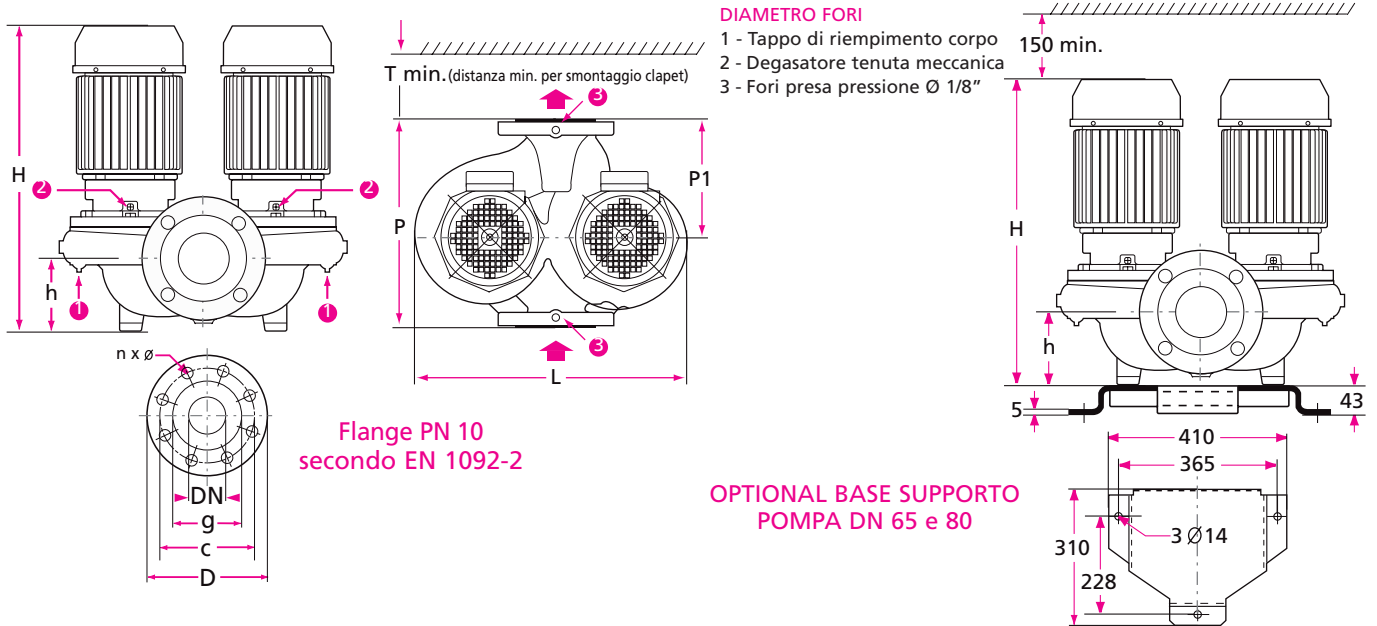


LRL : CARATTERISTICHE ELETTRICHE E DIMENSIONALI



Descrizione Articolo	MOTORE				POMPA									
	P2 kW	Intensità nom. in A TRI 230V TRI 400V	L mm	H mm	h mm	P mm	P1 mm	peso kg	DN mm	D mm	g mm	c mm	Fori n x Ø	
LRL203-09/0.37	0,37	2	1,15	207	365	70	260	130	20,5	32	140	78	100	4 x 19
LRL203-10/0.55	0,55	2,85	1,65	207	365	70	260	130	21,5	32	140	78	100	4 x 19
LRL203-11/0.75	0,75	3,3	1,91	207	365	70	260	130	24	32	140	78	100	4 x 19
LRL203-13/1.1	1,1	4,6	2,7	207	401	70	260	130	25	32	140	78	100	4 x 19
LRL203-16/1.1	1,1	4,6	2,7	207	401	70	260	130	25	32	140	78	100	4 x 19
LRL204-09/0.37	0,37	2	1,15	170	369	75	250	125	19	40	150	88	110	4 x 19
LRL204-11/0.55	0,55	2,85	1,65	170	369	75	250	125	20	40	150	88	110	4 x 19
LRL204-12/1.5	1,5	6	3,5	234	400	75	320	160	25	40	150	88	110	4 x 19
LRL204-13/2.2	2,2	8,5	4,9	234	428	75	320	160	28	40	150	88	110	4 x 19
LRL204-15/3	3	10,6	6,1	234	451	75	320	160	34,5	40	150	88	110	4 x 19
LRL204-16/4	4	-	7,5	234	494,5	75	320	160	40,5	40	150	88	110	4 x 19
LRL205-11/0.75	0,75	3,3	1,91	192	383	83	280	140	23	50	165	102	125	4 x 19
LRL205-12/1,5	1,5	6	3,5	247	435,5	86	340	170	34,5	50	165	102	125	4 x 19
LRL205-13/2,2	2,2	8,5	4,9	247	435,5	86	340	170	34,5	50	165	102	125	4 x 19
LRL205-14/3	3	10,6	6,1	247	464	86	340	170	37,5	50	165	102	125	4 x 19
LRL205-15/4	4	-	7,5	247	507,5	86	340	170	43,5	50	165	102	125	4 x 19
LRL206-12/1.5	1,5	6	3,5	218	453,5	93	340	170	34	65	185	122	145	4 x 19
LRL206-12/2,2	2,2	8,5	4,9	257	448,5	93	340	170	37	65	185	122	145	4 x 19
LRL206-13/3	3	10,6	6,1	257	477	93	340	170	40	65	185	122	145	4 x 19
LRL206-14/4	4	-	7,5	257	520,5	93	340	170	46	65	185	122	145	4 x 19
LRL208-12/2.2	2,2	8,5	4,9	245	478	100	360	180	39	80	200	138	160	8 x 19
LRL208-13/3	3	10,6	6,1	278	495	105	360	180	44	80	200	138	160	8 x 19
LRL208-14/4	4	-	7,5	278	538,5	105	360	180	50	80	200	138	160	8 x 19
LRL403-11/0.25	0,25	1,2	0,7	207	365	70	260	130	20	32	140	78	100	4 x 19
LRL403-16/0.25	0,25	1,2	0,7	207	365	70	260	130	20	32	140	78	100	4 x 19
LRL404-13/0.25	0,25	1,2	0,7	234	364	75	320	160	20	40	150	88	110	4 x 19
LRL404-15/0.37	0,37	2	1,15	234	364	75	320	160	24	40	150	88	110	4 x 19
LRL405-11/0.25	0,25	1,2	0,7	192	383	83	280	140	25	50	165	102	125	4 x 19
LRL405-13/0.37	0,37	2	1,15	247	377	86	340	170	25	50	165	102	125	4 x 19
LRL405-15/0.55	0,55	2,85	1,65	247	413	86	340	170	26	50	165	102	125	4 x 19
LRL406-12/0.25	0,25	1,2	0,7	257	390	93	340	170	27	65	185	122	145	4 x 19
LRL406-13/0.37	0,37	2	1,15	257	390	93	340	170	28	65	185	122	145	4 x 19
LRL406-14/0.55	0,55	2,85	1,65	257	426	93	340	170	29	65	185	122	145	4 x 19
LRL406-15/0.75	0,75	3,3	1,91	257	426	93	340	170	31	65	185	122	145	4 x 19
LRL408-13/0.75	0,75	3,3	1,91	278	444	105	360	180	37	80	200	138	160	8 x 19
LRL408-15/1.1	1,1	4,6	2,7	278	444	105	360	180	42	80	200	138	160	8 x 19

JRL : CARATTERISTICHE ELETTRICHE E DIMENSIONALI



Flange PN 10
secondo EN 1092-2

OPTIONAL BASE SUPPORTO
POMPA DN 65 e 80

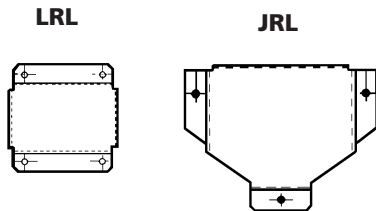
Descrizione Articolo	MOTORE			POMPA										
	P2 Intensità in A	L	H	h	P	P1	Peso	DN	D	c	g	Fori		
	kW	TRI 230V	TRI 400V	mm	mm	mm	mm	mm	kg	mm	mm	mm	n x Ø	
JRL203-09/0.37	0,37	2	1,15	410	365	70	260	136	36,3	32	140	100	78	4 x 19
JRL203-10/0.55	0,55	2,85	1,65	410	365	70	260	136	38,3	32	140	100	78	4 x 19
JRL203-11/0.75	0,75	3,3	1,91	410	365	70	260	136	43,3	32	140	100	78	4 x 19
JRL203-13/1.1	1,1	4,6	2,7	410	401	70	260	136	43,3	32	140	100	78	4 x 19
JRL203-16/1.1	1,1	4,6	2,7	410	401	70	260	136	43,3	32	140	100	78	4 x 19
JRL204-09/0.37	0,37	2	1,15	349,5	369	75	250	135	36	40	150	110	88	4 x 19
JRL204-11/0.55	0,55	2,85	1,65	349,5	369	75	250	135	36	40	150	110	88	4 x 19
JRL204-12/1.5	1,5	6	3,5	456	399,5	75	320	167	49,5	40	150	110	88	4 x 19
JRL204-13/2.2	2,2	8,5	4,9	456	427,5	75	320	167	62,5	40	150	110	88	4 x 19
JRL204-15/3	3	10,6	6,1	456	450,5	75	320	167	68,5	40	150	110	88	4 x 19
JRL204-16/4	4	-	7,5	456	494	75	320	167	80,5	40	150	110	88	4 x 19
JRL205-11/0.75	0,75	3,3	1,91	390	383	83	280	155	37,1	50	165	125	102	4 x 19
JRL205-12/1.5	1,5	6	3,5	500	435,5	86	340	190	64,3	50	165	125	102	4 x 19
JRL205-13/2,2	2,2	8,5	4,9	500	435,5	86	340	190	64,3	50	165	125	102	4 x 19
JRL205-14/3	3	10,6	6,1	500	464	86	340	190	70,3	50	165	125	102	4 x 19
JRL205-15/4	4	-	7,5	500	507,5	86	340	190	82,3	50	165	125	102	4 x 19
JRL206-12/1.5	1,5	6	3,5	431,5	453,5	93	340	185	30	65	185	145	122	4 x 19
JRL206-12/2,2	2,2	8,5	4,9	550	448,5	93	340	185	71,8	65	185	145	122	4 x 19
JRL206-13/3	3	10,6	6,1	550	477	93	340	185	77,8	65	185	145	122	4 x 19
JRL206-14/4	4	-	7,5	550	520,5	93	340	185	89,8	65	185	145	122	4 x 19
JRL208-12/2.2	2,2	8,5	4,9	479,5	478	100	360	205	74	80	200	160	138	8 x 19
JRL208-13/3	3	10,6	6,1	601	493	103	360	192	81	80	200	160	138	8 x 19
JRL208-14/4	4	-	7,5	601	536,5	103	360	192	93	80	200	160	138	8 x 19
JRL403-11/0.25	0,25	1,2	0,7	410	365	70	260	136	34,3	32	140	100	78	4 x 19
JRL403-16/0.25	0,25	1,2	0,7	410	365	70	260	136	34,3	32	140	100	78	4 x 19
JRL404-13/0.25	0,25	1,2	0,7	456	363,5	75	320	167	40,5	40	150	110	88	4 x 19
JRL404-15/0.37	0,37	2	1,15	456	363,5	75	320	167	42,5	40	150	110	88	4 x 19
JRL405-11/0.25	0,25	1,2	0,7	390	383	83	280	155	36,1	50	165	125	102	4 x 19
JRL405-13/0.37	0,37	2	1,15	500	377	86	340	190	44,3	50	165	125	102	4 x 19
JRL405-15/0.55	0,55	2,85	1,65	500	413	86	340	190	51,3	50	165	125	102	4 x 19
JRL406-12/0.25	0,25	1,2	0,7	550	390	93	340	185	49,8	65	185	145	122	4 x 19
JRL406-13/0.37	0,37	2	1,15	550	390	93	340	185	51,8	65	185	145	122	4 x 19
JRL406-14/0.55	0,55	2,85	1,65	550	426	93	340	185	62	65	185	145	122	4 x 19
JRL406-15/0.75	0,75	3,3	1,91	550	426	93	340	185	62	65	185	145	122	4 x 19
JRL408-13/0.75	0,75	3,3	1,91	601	442	103	360	192	62	80	200	160	138	8 x 19
JRL408-15/1.1	1,1	4,6	2,7	601	442	103	360	192	62	80	200	160	138	8 x 19

LRL-JRL

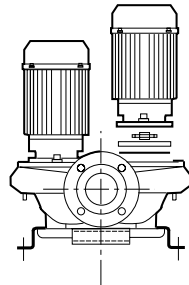
OPTIONAL LRL-JRL

Base pompa*

* Permette per i modelli **LRL** o **JRL** DN 65 e 80, il montaggio e il fissaggio su un basamento.



JRL : Flangia cieca completa di guarnizione



La Flangia cieca permette di mantenere in funzione la pompa nel caso in cui è necessaria una manutenzione straordinaria su un motore elettrico.

Modello pompa per famiglia	Base pompa		Flangia cieca per JRL	
	LRL	JRL	Desc. modello	Rif. Articolo
203 - 16			COUV 160	30 908 178 F
204 - 12			COUV 120	30 925 165 P
204 - 16			COUV 160	30 908 178 F
205 - 12			COUV 120	30 925 165 P
205 - 16			COUV 160	30 908 178 F
206 - 12	30 925 701 Y	30 925 702 G	COUV 121	30 925 166 Y
206 - 16	30 925 700 P	30 925 702 G	COUV 160	30 908 178 F
208 - 12	30 925 700 P	30 925 702 G	COUV 121	30 925 166 Y
208 - 16	30 925 700 P	30 925 702 G	COUV 160	30 925 178 F
403 - 16 et 404 - 16			COUV 160	30 908 178 F
405 - 12			COUV 120	30 925 165 P
405 - 16			COUV 160	30 908 178 F
406 - 16 et 408 - 16	30 925 700 P	30 925 702 G	COUV 160	30 908 178 F

Le famiglie delle pompe sono specificate sui grafici delle prestazioni idrauliche delle pompe

PARTICOLARITA'

a) Elettriche

TRIFASE 230-400V-50Hz motore <3kW.
TRIFASE 400V -50Hz motore = 4kW.
Protezione motore con disconnettore per JRL modulo di protezione e controllo MGP (optional)

b) Montaggio

Diretto sulle tubazioni in orizzontale o verticale.
Raccordo con l'impianto con contro-flange tonde PN 10 (optional).
Optional
Base supporto pompa per installazioni su basamento per i modelli DN 65 e DN 80.

c) Imballo

Pompa completa di guarnizioni e bulloni senza contro-flange (optional).

d) Manutenzione

Sostituzione completa della pompa o riparazione; vedi parti di ricambio raccomandate (✓) soggette ad usura.

e) Optional

- ✓ Modulo di controllo e protezione MGP (JRL)
- ✓ Flangia cieca (JRL)
- ✓ Kit Press (misurazione della pressione)
- ✓ Contro-flange tonde PN10
- ✓ Valvola di intercettazione

MGP MODULO DI PROTEZIONE E CONTROLLO

- ✓ Funzionamento in cascata ed alternanza se in presenza di un temporizzatore esterno (non fornito)
- ✓ Comando pompa, sicurezza di funzionamento, commutazione automatica in caso di anomalia al motore in funzione.
- ✓ Protezione termica dei motori elettrici

