

# SMART CATALOGUE

## HIGH PRESSURE PUMPS



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =



HPP is a PTC brand specialized in the design and construction of plunger pumps for water, made even better thanks to its technological expertise and further boosted by modern day technologies. This means the company is able to offer a wide range of products to meet requirements that go from 20 to 440 kW with pressures up to 2800 bar.

HPP pumps are manufactured using the most modern technologies both as regards to the materials used machining and mechanical operations and heat treatments. HPP is also able to provide a wide range of accessories, suitable for the specific needs of the single user. Professionalism and research make it a dynamic modern company intent on tackling and resolving the problems of a fast-evolving market.



## LEGEND › LEYENDA › LEGENDE › LEGENDA › LÉGENDE



bar - psi  
Pressure / Presión /  
Fördermenge /  
Pressione / Pression



kg - lb  
Weight / Peso / Gewicht /  
Peso / Poids



kW - HP  
Absorbed power / Potencia  
Absorbida / Aufgenommene  
Leistung / Potenza assorbita  
/ Puissance absorbée



RPM  
Velocidad de Rotacion /  
Rotationsgeschwindigkeit /  
Velocità di rotazione /  
Vitesse de Rotation



l/min  
Flow rate / Caudal /  
Druck / Portata / Débit



°C  
Hot-water version / Version para  
agua caliente / Ausführung für  
warmes wasser / Versione per acqua  
calda / Version pour eau chaude



Ø mm  
Piston diameter /  
Diámetro pistón /  
Kolbendurchmesser /  
Diametro pistone /  
Diamètre du piston

FLUID END  
BRASS\*

FLUID END  
CAST IRON

FLUID END  
AISI 303

FLUID END  
AISI 316

FLUID END  
AISI 420

FLUID END  
AISI 630

\* Nickel Plated Brass / Culata nichelada /  
Meising mit chemischer Vernickelung /  
Ottone Nichelato / Laiton nickelé

# CHOOSE YOUR PUMP / ELIGE TU BOMBA / WÄHLEN SIE IHRE PUMPE / SCEGLI LA TUA POMPA / CHOISISSEZ VOTRE POMPE



Up to 300 bar

- hp 26,6 › kW 19,6 CLW
- hp 26,1 › kW 19,2 CL
- hp 42 › kW 31 ET
- hp 43 › kW 32 EL-ELR
- hp 54 › kW 40 ELS
- hp 62 › kW 46 EF-EFR
- hp 82 › kW 60 ES-ESR
- hp 85 › kW 63 GL-GLR
- hp 113 › kW 83 SL-SLR
- hp 166 › kW 122 MLR
- hp 199 › kW 147 RLR

280 < 600 bar

- hp 24,7 › kW 18,2 CH
- hp 39 › kW 29 ETH
- hp 52 › kW 38 ELH-ELHR
- hp 61 › kW 45 EFH
- hp 73 › kW 54 ESH-ESHR

800 < 1500 bar

- hp 47 › kW 34 ETV
- hp 60 › kW 44 EFV
- hp 92 › kW 67 ESV-ESVR
- hp 110 › kW 81 SV



Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<b>FLUID END BRASS</b>  <b>85°C WATER</b> ON REQUEST SU RICHIESTA	CLW 49/200	30	1000	49	12,9	200	2900	19,2	26,1	33	73
	CLW 66/140 •	35	1000	66	17,4	140	2030	18,1	24,6	33	73
	CLW 70/130	30	1450	70	18,5	130	1885	17,8	24,2	33	73
	CLW 80/100	35	1150	80	21,1	100	1450	15,6	21,3	33	73
	CLW 100/100 •	35	1450	100	26,4	100	1450	19,6	26,6	33	73

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<b>FLUID END AISI 303</b> 	CL 49/200	30	1000	49	12,9	200	2900	19,2	26,1	34	75
	CL 66/140	35	1000	66	17,4	140	2030	18,1	24,6	34	75
	CL 70/130	30	1450	70	18,5	130	1885	17,8	24,2	34	75

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<b>FLUID END BRASS</b>  Female splined shaft version available on request / Versione albero femmina scanalato disponibile su richiesta	ET 57/250	25	1450-1750	57	15,1	250	3625	28	38	35	76
	ET 70/200	25	1750	70	18,5	200	2900	27	37	35	76
	ET 72/200	28	1450	72	19,0	200	2900	28	38	35	76
	ET 83/175	30	1450	83	21,9	175	2540	28	39	35	76
	ET 87/175	28	1750	87	23,0	175	2540	30	40	35	76
	ET 100/150	33	1450-1750	100	26,4	150	2175	29	40	35	76
	ET 120/120	33	1750	120	31,7	120	1740	28	38	35	76
	ET 120/120	36	1450	120	31,7	120	1740	28	38	35	76
	ET 144/110	36	1750	144	38,0	110	1595	31	42	35	76
ET 148/100	40	1450	148	39,1	100	1450	29	39	35	76	

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<b>FLUID END CAST IRON</b> 	EL 84/190	30	1000	84	22,2	190	2755	31	42	88	194
	EL 102/160	33	1000	102	26,9	160	2320	32	43	88	194
	EL 122/130	36	1000	122	32,2	130	1885	31	42	88	194
	EL 128/120	40	850	128	33,8	120	1740	30	41	88	194
	EL 152/100	45	800	152	40,2	100	1450	30	40	88	194
	EL 164/90	50	700	164	43,3	90	1305	29	39	88	194
	ELR 84/190	30	1500-1900	84	22,2	190	2755	31	42	105	232
	ELR 102/160	33	1500-1900	102	26,9	160	2320	32	43	105	232
	ELR 122/130	36	1500-1900	122	32,2	130	1885	31	42	105	232
	ELR 128/120	40	1275-1615	128	33,8	120	1740	30	41	105	232
	ELR 152/100	45	1200-1520	152	40,2	100	1450	30	40	105	232
	ELR 164/90	50	1050-1330	164	43,3	90	1305	29	39	105	232

• Hot water version on request / Versione ad acqua calda su richiesta



Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END CAST IRON 	ELS 84/210	30	1000	84	22,2	210	3045	34	47	88	194
	ELS 102/200	33	1000	102	26,9	200	2900	40	54	88	194
	ELS 122/160	36	1000	122	32,2	160	2320	38	52	88	194
	ELS 135/140	40	900	135	35,7	140	2030	37	50	88	194
	ELS 150/130	40	1000	150	39,6	130	1885	38	52	88	194
	ELS 162/110	45	850	162	42,8	110	1595	35	47	88	194

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END CAST IRON 	EF 75/280 ●	25	850	75	19,8	280	4060	41	56	80	176
	EF 88/250 ●	25	1000	88	23,2	250	3625	43	59	80	176
	EF 111/210 ●●	28	1000	111	29,3	210	3045	46	62	80	176
	EF 123/150 ●●	33	800	123	32,5	150	2175	36	49	80	176
	EF 127/180 ●●	30	1000	127	33,5	180	2610	45	61	80	176
	EF 139/150 ●●	33	900	139	36,7	150	2175	41	55	80	176
	EF 154/150 ●●	33	1000	154	40,7	150	2175	45	61	80	176
	EF 165/120 ●●	36	900	165	43,6	120	1740	39	53	80	176
	EF 183/120 ●●	36	1000	183	48,3	120	1740	43	58	80	176
	EFR 88/250 ●	25	1500-1800-2200	88	23,2	250	3625	43	59	95	209
EFR 111/210 ●●	28	1500-1800-2200	111	29,3	210	3045	46	62	95	209	
EFR 123/150 ●●	33	1500-1800	123	32,5	150	2175	36	49	95	209	
EFR 127/180 ●●	30	1500-1800-2200	127	33,5	180	2610	45	61	95	209	
EFR 154/150 ●●	33	1500-1800-2200	154	40,7	150	2175	45	61	95	209	
EFR 183/120 ●●	36	1500-1800-2200	183	48,3	120	1740	43	58	95	209	

Female splined shaft version available on request / Versione albero femmina scanalato disponibile su richiesta

<b>FLUID END</b> <b>AISI 316</b> ON REQUEST SU RICHIESTA (MAX 200 BAR)	<b>FLUID END</b> <b>AISI 420</b> 85°C WATER ON REQUEST SU RICHIESTA
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Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END AISI 420 	ES 106/250 ●	25	1200	106	28,0	250	3625	52	70	92	202
	ES 133/210 ●●	28	1200	133	35,1	210	3045	55	74	92	202
	ES 153/200 ●●	30	1200	153	40,4	200	2900	60	81	92	202
	ES 185/160 ●●	33	1200	185	48,9	160	2320	58	79	92	202
	ES 220/140 ●●	36	1200	220	58,1	140	2030	60	82	92	202
	ESR 106/250 ●	25	1500-1800-2200	106	28,0	250	3625	52	70	107	236
	ESR 133/210 ●●	28	1500-1800-2200	133	35,1	210	3045	55	74	107	236
	ESR 153/200 ●●	30	1500-1800-2200	153	40,4	200	2900	60	81	107	236
	ESR 185/160 ●●	33	1500-1800-2200	185	48,9	160	2320	58	79	107	236
	ESR 220/140 ●●	36	1500-1800-2200	220	58,1	140	2030	60	82	107	236

Female splined shaft version available on request / Versione albero femmina scanalato disponibile su richiesta

<b>FLUID END</b> <b>AISI 316</b> ON REQUEST SU RICHIESTA (MAX 200 BAR)	<b>FLUID END</b> <b>AISI 420</b> 85°C WATER ON REQUEST SU RICHIESTA
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- AISI 316 fluid end version on request / Versione con Fluid end in AISI 316 su richiesta
- Hot water version on request / Versione ad acqua calda su richiesta

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END CAST IRON</p> <p>FLUID END AISI 420 ON REQUEST SU RICHIESTA</p>	GL 109/290	36	750	109	28,8	290	4205	62	84	150	331
	GL 135/235	40	750	135	35,7	235	3410	62	84	150	331
	GL 171/185	45	750	171	45,2	185	2685	62	84	150	331
	GL 212/150	50	750	212	56,0	150	2175	62	85	150	331
	GL 256/125	55	750	256	67,6	125	1815	63	85	150	331
	GLR 109/290	36	1500-1800	109	28,8	290	4205	62	84	175	386
	GLR 135/235	40	1500-1800	135	35,7	235	3410	62	84	175	386
	GLR 171/185	45	1500-1800	171	45,2	185	2685	62	84	175	386
	GLR 212/150	50	1500-1800	212	56,0	150	2175	62	85	175	386
GLR 256/125	55	1500-1800	256	67,6	125	1815	63	85	175	386	

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END CAST IRON</p> <p>FLUID END AISI 420 ON REQUEST SU RICHIESTA</p>	SL 135/300	36	750	135	35,7	300	4350	79	108	235	518
	SL 167/250	40	750	167	44,1	250	3625	82	111	235	518
	SL 212/200	45	750	212	56,0	200	2900	83	113	235	518
	SL 263/160	50	750	263	69,5	160	2320	83	112	235	518
	SL 316/130	55	750	316	83,5	130	1885	80	109	235	518
	SLR 135/300	36	1500-1800-2200	135	35,7	300	4350	79	108	270	595
	SLR 167/250	40	1500-1800-2200	167	44,1	250	3625	82	111	270	595
	SLR 212/200	45	1500-1800-2200	212	56,0	200	2900	83	113	270	595
	SLR 263/160	50	1500-1800-2200	263	69,5	160	2320	83	112	270	595
	SLR 316/130	55	1500-1800-2200	316	83,5	130	1885	80	109	270	595

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END CAST IRON</p>	MLR 250/250	50	1500-1800	250	66,0	250	3625	122	166	395	871
	MLR 300/200	55	1500-1800	300	79,3	200	2900	117	160	395	871
	MLR 360/170	60	1500-1800	360	95,1	170	2465	120	163	395	871
	MLR 420/145	65	1500-1800	420	111,0	145	2105	119	162	395	871

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END CAST IRON</p>	RLR 300/250	55	1500-1800	300	79,3	250	3625	147	199	405	893
	RLR 360/200	60	1500-1800	360	95,1	200	2900	141	191	405	893
	RLR 420/170	65	1500-1800	420	111,0	170	2465	140	190	405	893
	RLR 480/145	70	1500-1800	480	126,8	145	2105	136	185	405	893

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END AISI 420</p>	CH 18/500	18	1000	18	4,8	500	7250	17,6	23,9	29	64
	CH 22/400	20	1000	22	5,8	400	5800	17,2	23,4	29	64
	CH 25/500	18	1450	25	6,6	500	7250	24,4	33,2	29	64
	CH 31/300	20	1450	31	8,2	300	4350	18,2	24,7	29	64

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END BRASS</p> <p>Female splined shaft version available on request / Versione albero femmina scanalato disponibile su richiesta</p>	ETH 30/500	18	1450-1750	30	7,9	500	7250	29	40	33	73
	ETH 36/400	18	1750	36	9,5	400	5800	28	38	33	73
	ETH 37/400	20	1450	37	9,8	400	5800	29	39	33	73
	ETH 44/320	22	1750	44	11,6	320	4640	28	37	33	73
	ETH 45/320	22	1450	45	11,9	320	4640	28	38	33	73

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END AISI 420</p>	ELH 30/600	18	1000	30	7,9	600	8700	35	48	68	150
	ELH 38/500	20	1000	38	10,0	500	7250	37	51	68	150
	ELH 47/400	22	1000	47	12,4	400	5800	37	50	68	150
	ELH 59/310	25	1000	59	15,6	310	4495	36	49	68	150
	ELH 70/280	25	1200	70	18,5	280	4060	38	52	68	150
	ELHR 30/600	18	1500-1900	30	7,9	600	8700	35	48	85	187
	ELHR 38/500	20	1500-1900	38	10,0	500	7250	37	51	85	187
	ELHR 47/400	22	1500-1900	47	12,4	400	5800	37	50	85	187
ELHR 59/310	25	1500-1900	59	15,6	310	4495	36	49	85	187	

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<b>FLUID END</b> <b>AISI 420</b>  	<b>EFH 32/600</b>	15	1000	32	8,5	600	8700	38	51	81	179
	<b>EFH 46/500</b>	18	1000	46	12,2	500	7250	45	61	81	179
	<b>EFH 57/400</b>	20	1000	57	15,1	400	5800	45	61	81	179
GEARBOX version on request / Versione con RIDUTTORE su richiesta											
Female shaft version available on request / Versione albero femmina disponibile su richiesta											
	<b>EFH 70/310</b>	22	1000	70	18,5	310	4495	42	58	81	179

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<b>FLUID END</b> <b>AISI 420</b> 	<b>ESH 38/600</b>	15	1200	38	10,0	600	8700	45	61	83	183
	<b>ESH 55/500</b>	18	1200	55	14,5	500	7250	54	73	83	183
	<b>ESH 68/400</b>	20	1200	68	18,0	400	5800	53	72	83	183
	<b>ESH 82/310</b>	22	1200	82	21,7	310	4495	50	68	83	183
   Female shaft version available on request / Versione albero femmina disponibile su richiesta	<b>ESHR 38/600</b>	15	1500-1800-2200	38	10,0	600	8700	45	61	98	216
	<b>ESHR 55/500</b>	18	1500-1800-2200	55	14,5	500	7250	54	73	98	216
	<b>ESHR 68/400</b>	20	1500-1800-2200	68	18,0	400	5800	53	72	98	216
	<b>ESHR 82/310</b>	22	1500-1800-2200	82	21,7	310	4495	50	68	98	216



Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END AISI 630 	ETV 13/1100	12	1450	13	3,4	1100	15955	28	38	37	82
	ETV 13/1100	12	1750	13	3,4	1100	15955	28	38	37	82
	ETV 18/800	14	1450	18	4,8	800	11605	28	38	37	82
	ETV 18/800	14	1750	18	4,8	800	11605	28	38	37	82

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END AISI 630  GEARBOX version on request / Versione con RIDUTTORE su richiesta	EFV 15/1500	12	750	15	4,0	1500	21755	44	60	90	198
	EFV 17/1250	12	900	17	4,5	1250	18130	42	57	90	198
	EFV 19/1100	12	1000	19	5,0	1100	15955	41	56	90	198
	EFV 22/1000	14	850	22	5,8	1000	14505	43	59	90	198
	EFV 26/800	14	1000	26	6,9	800	11605	41	55	90	198

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END AISI 630 	ESV 23/1500	12	1200	23	6,1	1500	21755	67	92	92	203
	ESV 31/1000	14	1200	31	8,2	1000	14505	61	82	92	203
	ESVR 19/1500	12	1500-1800-2200	19	5,0	1500	21755	56	76	107	236
	ESVR 26/1000	14	1500-1800-2200	26	6,8	1000	14505	51	69	107	236

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END AISI 630  GEARBOX version on request / Versione con RIDUTTORE su richiesta	SV 34/1200	18	750	18	4,8	1200	17405	42	57	247	545
	SV 42/1000	20	750	42	11,1	1000	14505	82	112	247	545
	SV 51/750	22	750	51	13,5	750	10880	75	102	247	545
	SV 61/600	24	750	61	16,1	600	8700	72	97	247	545
	SV 72/500	26	750	72	19,0	500	7250	70	96	247	545
	SVR 34/1200	18	1500-1800-2200	18	4,8	1200	17405	42	57	278	613
	SVR 42/1000	20	1500-1800-2200	42	11,1	1000	14505	82	112	278	613
	SVR 51/750	22	1500-1800-2200	51	13,5	750	10880	75	102	278	613
	SVR 61/600	24	1500-1800-2200	61	16,1	600	8700	72	97	278	613
	SVR 72/500	26	1500-1800-2200	72	19,0	500	7250	70	96	278	613

## POWER SOURCE OPTION / OPCIÓN DE FUENTE DE ALIMENTACIÓN / STROMQUELLENOPTIONEN / SORGENTE DI ALIMENTAZIONE OPZIONE / OPTIONS D'ALIMENTATION



**ELECTRIC**  
 ELÉCTRICA  
 ELEKTRISCHE  
 ELETTRICA  
 ÉLECTRIQUE

10 kW < 250 kW



**DIESEL/GASOLINE**  
 DIÉSEL / GASOLINA  
 DIESEL / BENZIN  
 DIESEL / BENZINA  
 DIESEL / ESSENCE

15 kW < 400 kW



**HYDRAULIC (gear / piston)**  
 HIDRÁULICA (engranajes / pistones)  
 HYDRAULIK (Getriebe / Kolbenmotor)  
 IDRAULICA (ingranaggi / pistoni)  
 HYDRAULIQUE (engrenages / pistons)

63 cc – 80 cc – 90 cc

## POSSIBLE CONFIGURATIONS / CONFIGURACIONES POSIBLES / MÖGLICHEN KONFIGURATIONEN / POSSIBILI CONFIGURAZIONI / CONFIGURATIONS POSSIBLES

- **BELT** / CORREA / KEILRIEMEN / CINGHIA / COURROIE
- **DIRECT CONNECTION BY FLEX COUPLING** / ACOPLAMIENTO FLEXIBLE DIRECTO / DIREKTVERBINDUNG MIT FLEXIBLER KOPPLUNG / COLLEGAMENTO DIRETTO TRAMITE GIUNTO FLESSIBILE / DIRECTEMENT EN ACCOUPLEMENT ÉLASTIQUE
- **GEARBOX** / REDUCTOR / UNTERSETZUNGSGETRIEBE / RIDUTTORE / RÉDUCTEUR
- **CLUTCH** / EMBRAGUE / KUPPLUNG / FRIZIONE / EMBRAYAGE







# ACCESSORIES / ACCESSORIOS / ZUBERHÖR / ACCESSORI / ACCESSOIRES

**UNLOADER VALVES /**  
 VÁLVULAS AUTOMÁTICAS /  
 DRUCKREGLERAUTOMATIK /  
 VALVOLE AUTOMATICHE /  
 VANNES AUTOMAQUES



**PRESSURE REGULATING VALVES /**  
 REGULADOR DE PRESIÓN /  
 DRUCKREGLER /  
 REGOLATORE DI PRESSIONE /  
 RÉGULATEUR DE PRESSION



**PNEUMATIC PRESSURE REGULATING VALVES /**  
 REGULADOR DE PRESIÓN NEUMÁTICO /  
 PNEUMATISCHE DRUCKREGLER /  
 REGOLATORE DI PRESSIONE PNEUMATICO /  
 RÉGULATEUR DE PRESSION PNEUMATIQUE



**SAFETY VALVES /**  
 VÁLVULAS DE SEGURIDAD /  
 SICHERHEITSVENTILE /  
 VALVOLE DI SICUREZZA /  
 SUOUPAPE DE SÉCURITÉ



**PRESSURE GAUGES /**  
 MANÓMETROS /  
 MANOMETER /  
 MANOMETRI /  
 MANOMÈTRES



**GUNS WITH LANCES /**  
 PISTOLAS CON LANZAS /  
 PISTOLEN MIT STRAHLROHREN /  
 PISTOLE CON LANCE /  
 PISTOLET AVEC LANCES



**FILTERS /**  
 FILTROS /  
 FILTER /  
 FILTRI /  
 FILTRES



**PULSATION DAMPENERS /**  
 ACCUMULADORES /  
 DRUCKSPEICHER /  
 ACCUMULATORI /  
 BALLONS ANTI BÉLIER



**NON RETURN VALVE /**  
 VÁLVULAS ANTI RITORNO /  
 ABSPERRVENTIL /  
 VALVOLE DI NON RITORNO /  
 VALVE DE NON RETOUR



**FOOT VALVE /**  
 VALVULA DE PEDAL /  
 FUBVENTIL /  
 VALVOLA A PEDALE /  
 VANNE À PÉDALE



# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p><b>ALLUMINIUM AND STEEL MILLS</b></p> <p>Hardened bauxite dust on mills, filters, floors, tanks, sumps and sewers; water scale, coke, ore and lime in heat exchangers, flues, boilers, open hearths, furnaces, chutes and hoppers, descaling billets and water hydraulics; mill scale, tight rust and weld slag from vessels, tanks and pipes.</p>	<p><b>200 - 2.800</b> <b>(3.000 - 40.000)</b></p>




Application	Bar (Psi)
<p><b>AUTOMOTIVE</b></p> <p>Paint from booths, machinery, gratings, conveyers, dollies and skids.</p>	<p><b>700 - 2.800</b> <b>(10.000 - 40.000)</b></p>


Application	Bar (Psi)
<p><b>AVIATION</b></p> <p>Expansion joints, grease, rubber and hydraulic fluids on airport runways.</p>	<p><b>700 - 1.400</b> <b>(10.000 - 20.000)</b></p>





Application	Bar (Psi)
<p><b>BREWERIES AND DISTILLERIES</b></p> <p>Yeast, sediments and fermentation residues on vats, pipes and facilities; cleaning of boilers tubes, vats and pipe lines.</p>	<p><b>200 - 1.500</b> <b>(3.000 - 22.000)</b></p>

# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)	
<p><b>CEMENT PLANTS</b></p> <p>external piping, bins, walls, hopper cars and handling equipment; cooler hearths and pre-heater columns, bins, hopper cars, floors, rotary kilns and walls.</p>	<p><b>200 - 1.000</b> <b>(3.000 - 15.000)</b></p>	

Application	Bar (Psi)	
 <p><b>CHEMICAL PROCESSING</b></p> <p>Chemicals from boiler tubes, tanks, valves, evaporators, heat exchangers, tube bundles, pipes, vessels, reactors and facilities.</p>	<p><b>350 - 2.800</b> <b>(5.000 - 40.000)</b></p>	

Application	Bar (Psi)	
<p><b>CONSTRUCTION AND RENOVATION</b></p> <p>Asphalt distributors, mixers, tar cookers and pavers; asphalt, dirt, concrete, mortar, tar, grease, mastic and clay on vehicles, mixer trucks and machinery; canals, lifts, dams and runways; cleaning of natural stone walling, removal of joint materials, coats, damaged or corroded coatings from walls and floors, roughening of concrete and stone surfaces.</p>	<p><b>200 - 2.800</b> <b>(3.000 - 40.000)</b></p>	

Application	Bar (Psi)	
 <p><b>FOOD AND BEVERAGES PROCESSING</b></p> <p>Fats, oils, dirt and dough, food residues from vats, ovens, mixers, conveyors and facilities; cleaning of cold storage facilities, slaughter-houses, fish and meat butchers, sugar processing plants, bottling plants, food cutting, evaporators, milk tanks, centralised dairy systems, ultra-filtration by reverse osmosis; water jet cutting.</p>	<p><b>200 - 1.000</b> <b>(3.000 - 15.000)</b></p>	



# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p><b>FOUNDRIES</b> Removal of deposits, metal oxidation, ceramic and sand core materials from castings, furnaces and paddles.</p>	<p><b>100 - 700 (1.500 - 10.000)</b></p>



Application	Bar (Psi)
<p><b>HYDRODEMOLITION</b> Concrete cement cutting, reclamation and wet sandblasting of tunnels also using special robots; concrete surface hydro-ripping for large infrastructure, dams, viaducts, homes and offices; surface preparation.</p>	<p><b>1.000 - 2.800 (15.000 - 40.000)</b></p>


Application	Bar (Psi)
<p><b>MARINE</b> Removal of marine growth, barnacles, loose paint and rust on ship hulls, docks, ballasts, platforms, condensers, floating drydocks, anchor chains, storage tanks and boilers; underwater cleaning of pipes and drilling platforms, of barnacles and marine growth to 'white metal'; coatings removal prior to repainting; draining of sludge and sediments from cargo holds, ballast tanks and double bottoms; surface preparation.</p>	<p><b>350 - 2.800 (5.000 - 40.000)</b></p>




Application	Bar (Psi)
<p><b>MILITARY</b> Airport cleaning, nuclear decontamination, cleaning navy applications, wheel and tracked vehicles, rehabilitation and/ or decommissioning of concrete installations, cold cutting of ammunition and armoured tanks in decommissioned sites.</p>	<p><b>700 - 2.800 (10.000 - 40.000)</b></p>




# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)	
<p><b>MINING</b></p> <p>Pre-maintenance cleaning of dumpers, drag lines, underground haulage lines and shafts; aids in the recovery of ore; unclog plant machinery due to deposits of coal, rock dust, mud or oils.</p>	<p><b>100 - 500</b> <b>(1.500 - 7.000)</b></p>	

Application	Bar (Psi)	
	<p><b>200 - 500</b> <b>(3.000 - 7.000)</b></p>	<p><b>MUNICIPALITIES</b></p> <p>Reservoirs and containers, sewers and drain pipes, sanitation equipment and refuse vehicles; insulators, boiler tubes, vehicles and machinery; surface preparation.</p>

Application	Bar (Psi)	
<p><b>OILFIELDS</b></p> <p>Paraffin and crude residues from platforms and storage tanks; removal of drilling mud and cement from drill pipes; "cold" cutting.</p>	<p><b>200 - 2.800</b> <b>(3.000 - 40.000)</b></p>	

Application	Bar (Psi)	
	<p><b>350 - 2.800</b> <b>(5.000 - 40.000)</b></p>	<p><b>PETROCHEMICAL PROCESSING AND REFINERIES</b></p> <p>Algae, carbon, scum, soft polymers and asbestos, wax, paraffin, grease and crude residues, water scale, calcium sulphate, chlorides, hard polymers, iron oxide, coke, hard carbon, PVC and PVA in heat exchangers, re-boilers, tanks, reactors, pipes, cooling towers and facilities; "cold" cutting.</p>

# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p><b>PHARMACEUTICAL</b> Cleaning of chemicals (liquid and solid) from pipes, kettles, mixers, tubes, heat exchangers, reactors, filters and evaporators.</p>	<p><b>500 - 2.800 (7.000 - 40.000)</b></p>




Application	Bar (Psi)
<p><b>PIPES (INDUSTRIAL)</b> Removal of rust and varnish prior to recoating, dope and oil from pipe threads for inspection, drilling mud and debris in various kinds of pipes (internal); manual or fully automatic test units equipped with plunger pumps for filling and test processes.</p>	<p><b>100 - 700 (1.500 - 10.000)</b></p>


Application	Bar (Psi)
<p><b>POWER STATIONS</b> Nuclear decontamination of fuel capsules, 'U' tube exchangers, flash from pre-heater tubes, hand tools and equipment.</p>	<p><b>700 - 2.800 (10.000 - 40.000)</b></p>





Application	Bar (Psi)
<p><b>PRESSURE TESTING</b> Manual or fully automatic test benches up to 7.000 bar used for pressure testing of valves, tubings, hoses, fittings and complete systems.</p>	<p><b>400 - 7.000 (6.000 - 100.000)</b></p>

# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)	
<p><b>PULP &amp; PAPER</b></p> <p>Cleaning of grease, oil, pitch, dirt and wood pulp from heat exchangers, tubes, foundries, press sections of paper machines, suction rolls, stock chests and lines; water jet cutting.</p>	<p><b>350 - 700</b> <b>(5.000 - 10.000)</b></p>	

	Application	Bar (Psi)
	<p><b>RAILWAYS</b></p> <p>Gypsum, potash, cement, lime in hopper cars; removing grease, dirt and deposits from trucks, undercarriages and tank cars; removal of leaf mulch from railway lines.</p>	<p><b>350 - 2.800</b> <b>(5.000 - 40.000)</b></p>

Application	Bar (Psi)	
<p><b>RUBBER PROCESSING</b></p> <p>Latex, SBR and water scale in reactors, storage tanks, heat exchangers, tubing, pipes and facilities.</p>	<p><b>600 - 2.800</b> <b>(9.000 - 40.000)</b></p>	

	Application	Bar (Psi)
	<p><b>TRAFFIC AND TRANSPORTS</b></p> <p>Removal of road markings, cleaning of railway carriages and buses, renovation of concrete surfaces; cleaning of grease, vegetation, mud, tar, cement or asphalt on vehicles and machinery; graffiti, stains, tar and mastics on concrete bridges and overpasses, removal of expansion joints and paint strips; unblock culverts on bridges and clean up overspill.</p>	<p><b>350 - 1.000</b> <b>(5.000 - 15.000)</b></p>





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P.T.C. Srl | Via Mantegna, 4 › Rubiera (RE) Italy  
+39 0522 626477 › [hpp@ptcitaliana.com](mailto:hpp@ptcitaliana.com)

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