

High Pressure Pumps

SMART CATALOGUE

EN

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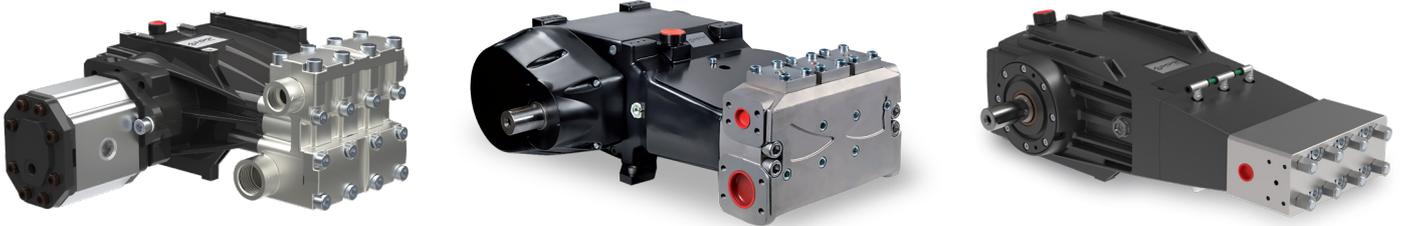
HPP

BRAND OF  PTC

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 Rotación /
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



Vertical
assembling



Horizontal
assembling



Flanged
assembling



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

* Aluminium Free / Sin aluminio /
Ohne Aluminium / Senza alluminio / Sans aluminium

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 150 › kW 110 PLR

hp 166 › kW 122 MLR

hp 199 › kW 147 RLR

MOTOR-PUMPS

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

MOTOR-PUMPS

hp 47 › kW 34 ETV

hp 60 › kW 44 EFV

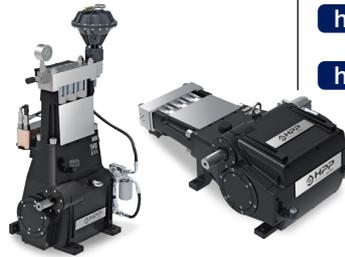
hp 92 › kW 67 ESV-ESVR

hp 110 › kW 81 SV

800 < 1500 bar



SAP
Up to 1500 bar



hp 99 › kW 73 H-90 SAP

hp 109 › kW 81 H-100 SAP

hp 168 › kW 125 H-150 SAP

hp 227 › kW 169 H-200 SAP

hp 354 › kW 264 H-300 SAP

hp 557 › kW 415 H-550 SAP

UAP
Up to 2800 bar



hp 123 › kW 92 H-100 UAP

hp 174 › kW 130 H-150 UAP

hp 227 › kW 169 H-200 UAP

hp 341 › kW 251 H-300 UAP

SAP - L



hp 107 › kW 79 H-100 SAP-L

hp 158 › kW 116 H-150 SAP-L

hp 204 › kW 150 H-200 SAP-L

hp 345 › kW 257 H-300 SAP-L

hp 566 › kW 422 H-550 SAP-L



Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END BRASS 85°C WATER 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
FLUID END AISI 303 	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
FLUID END BRASS 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
FLUID END CAST IRON Al FREE ON REQUEST SU RICHIESTA	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
 • Aluminium free version on request / Versione senza alluminio 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

FLUID END AISI 316 ON REQUEST SU RICHIESTA (MAX 200 BAR)	FLUID END AISI 420 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

FLUID END AISI 316 ON REQUEST SU RICHIESTA (MAX 200 BAR)	FLUID END AISI 420 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
<div style="border: 1px solid black; padding: 2px; width: fit-content;">FLUID END CAST IRON</div>   <div style="background-color: #4CAF50; color: white; padding: 2px; font-size: 0.8em; margin-top: 5px;"> Female gearbox shaft version available on request / <i>Versione albero riduttore femmina disponibile su richiesta</i> </div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 5px;"> FLUID END AISI 420 </div> <div style="font-size: 0.8em; margin-top: 2px;">ON REQUEST SU RICHIESTA</div>	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
<div style="border: 1px solid black; padding: 2px; width: fit-content;">FLUID END CAST IRON</div>   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 10px;"> FLUID END AISI 420 </div> <div style="font-size: 0.8em; margin-top: 2px;">ON REQUEST SU RICHIESTA</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 10px; text-align: center;"> 13 AI FREE </div> <div style="font-size: 0.8em; margin-top: 2px;">ON REQUEST SU RICHIESTA</div>	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
FLUID END CAST IRON 	PLR 269/200	45	1500-1800-2200-2600	269	71,6	200	2900	105	143	300	660
	PLR 332/170	50	1500-1800-2200-2600	332	87,71	170	2465	111	151	300	660
	PLR 402/140	55	1500-1800-2200-2600	402	106,2	140	2030	110	150	300	660

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END CAST IRON 	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
FLUID END CAST IRON 	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

MOTOR-PUMPS

MOTOBOMBAS / MOTORPUMPEN / MOTOPOMPE / MOTOPOMPES

Up to 300 bar

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0020 · 63 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	ET 57/225	25	1450	57	15,1	225	3265	25	34,2	93	24,6	185	2685
	ET 70/200	25	1750	70	18,5	200	2900	27	37,3	113	29,7	170	2465
	ET 72/180	28	1450	72	19,0	180	2610	25	34,5	93	24,6	190	2755
	ET 83/155	30	1450	83	21,9	155	2250	25	34,3	93	24,6	190	2755
	ET 87/175	28	1750	87	23,0	175	2540	30	40,6	113	29,7	185	2685
	ET 100/130	33	1450	100	26,4	130	1885	25	34,6	93	24,6	190	2755
	ET 120/120	33	1750	120	31,7	120	1740	28	38,4	113	29,7	175	2540
	ET 120/110	36	1450	110	29,1	120	1740	26	35,2	93	24,6	190	2755
	ET 144/110	36	1750	144	38,0	110	1595	31	42,2	113	29,7	190	2755
ET 148/85	40	1450	148	39,1	85	1230	25	33,5	93	24,6	185	2685	

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0044 · 91 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	EF 75/280	25	850	75	19,8	280	4060	41	55,9	79	20,9	360	5220
	EF 88/250	25	1000	88	23,2	250	3625	43	58,6	93	24,5	320	4640
	EF 111/210	28	1000	111	29,3	210	3045	46	62,1	93	24,5	340	4930
	EF 127/180	30	1000	127	33,5	180	2610	45	60,9	93	24,5	335	4860
	EF 123/150	33	800	123	32,5	150	2175	36	49,2	74	19,6	340	4930
	EF 139/150	33	900	139	36,7	150	2175	41	55,5	84	22,1	340	4930
	EF 154/150	33	1000	154	40,7	150	2175	45	61,5	93	24,5	340	4930
	EF 165/120	36	900	165	43,6	120	1740	39	52,7	84	22,1	320	4640
	EF 183/120	36	1000	183	48,3	120	1740	43	58,5	93	24,5	320	4640

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0044 · 91 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	ES 106/250	25	1200	106	28,0	250	3625	52	70,6	111	29,4	325	4715
	ES 133/210	28	1200	133	35,1	210	3045	55	74,4	111	29,4	340	4930
	ES 153/185	30	1200	153	40,4	185	2685	55	75,4	111	29,4	345	5005
	ES 185/160	33	1200	185	48,9	160	2320	58	78,9	111	29,4	360	5220
	ES 220/130	36	1200	220	58,1	130	1885	56	76,2	111	29,4	350	5075

MOTOR-PUMPS

MOTOBOMBAS / MOTORPUMPEN / MOTOPOMPE / MOTOPOMPES

Up to 300 bar

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0044 · 91 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	GLR 109/290	36	1800	109	28,8	290	4205	62	84,2	167	44,2	255	3700
	GLR 135/235	40	1800	135	35,7	235	3410	62	84,5	167	44,2	260	3770
	GLR 171/185	45	1800	171	45,2	185	2685	62	84,3	167	44,2	255	3700
	GLR 212/150	50	1800	212	56,0	150	2175	62	84,7	167	44,2	260	3770
	GLR 256/125	55	1800	256	67,6	125	1810	63	85,3	167	44,2	260	3770

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0044 · 91 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	PLR 269/200	45	2600	269	71,1	200	2900	105	143,3	241	63,8	305	4425
	PLR 332/170	50	2600	332	87,7	170	2465	111	150,4	241	63,8	320	4640
	PLR 402/140	55	2600	402	106,2	140	2030	110	149,9	241	63,8	315	4570

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
FLUID END AISI 420 	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
FLUID END BRASS Female splined shaft version available on request / Versione albero femmina scanalato disponibile su richiesta	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
FLUID END AISI 420 	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
FLUID END AISI 420  	EFH 32/600	15	1000	32	8,5	600	8700	38	51	81	179
	EFH 46/500	18	1000	46	12,2	500	7250	45	61	81	179
	EFH 57/400	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											
	EFH 70/310	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
FLUID END AISI 420 	ESH 38/600	15	1200	38	10,0	600	8700	45	61	83	183
	ESH 55/500	18	1200	55	14,5	500	7250	54	73	83	183
	ESH 68/400	20	1200	68	18,0	400	5800	53	72	83	183
	ESH 82/310	22	1200	82	21,7	310	4495	50	68	83	183
	ESHR 38/600	15	1500-1800-2200	38	10,0	600	8700	45	61	98	216
	ESHR 55/500	18	1500-1800-2200	55	14,5	500	7250	54	73	98	216
	ESHR 68/400	20	1500-1800-2200	68	18,0	400	5800	53	72	98	216
	ESHR 82/310	22	1500-1800-2200	82	21,7	310	4495	50	68	98	216
Female shaft version available on request / Versione albero femmina disponibile su richiesta											

MOTOR-PUMPS

MOTOBOMBAS / MOTORPUMPEN / MOTOPOMPE / MOTOPOMPES

Up to 300 bar

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0020 · 63 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	ETH 30/435	18	1450	30	7,9	435	6310	26	34,8	93	24,6	190	2755
	ETH 36/400	18	1750	36	9,5	400	5800	28	38,4	113	29,7	175	2540
	ETH 37/350	20	1450	37	9,8	350	5075	25	34,5	93	24,6	190	2755
	ETH 45/291	22	1450	45	11,9	291	4220	26	34,9	93	24,6	190	2755

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0044 · 91 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	EFH 32/600	15	1000	32	8,5	600	8700	38	51,2	93	24,5	280	4060
	EFH 46/500	18	1000	46	12,2	500	7250	45	61,3	93	24,5	335	4860
	EFH 57/400	20	1000	57	15,1	400	5800	45	60,7	93	24,5	335	4860
	EFH 70/310	22	1000	70	18,5	310	4495	43	57,8	93	24,5	320	4640

HPP PUMP / POMPA HPP										HYDRAULIC MOTOR / MOTORE IDRAULICO Gears / Ingranaggi 1832 0044 · 91 cc			
Pump													
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	l/min	US gpm	bar	psi
	ESH 38/600	15	1200	38	10,0	600	8700	45	60,7	111	29,4	280	4060
	ESH 55/500	18	1200	55	14,5	500	7250	54	73,3	111	29,4	335	4860
	ESH 68/400	20	1200	68	18,0	400	5800	53	72,5	111	29,4	330	4785
	ESH 82/310	22	1200	82	21,7	310	4495	50	67,7	111	29,4	310	4495

Pump											
		Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
<p>FLUID END AISI 630</p>	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
<p>FLUID END AISI 630</p> <p>GEARBOX version on request / Versione con RIDUTTORE su richiesta</p>	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
<p>FLUID END AISI 630</p>	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
<p>FLUID END AISI 630</p> <p>GEARBOX version on request / Versione con RIDUTTORE su richiesta</p>	SV 34/1200	18	750	34	9,0	1200	17405	80	109	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	34	9,0	1200	17405	80	109	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 – 91 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



OVERPRESSURE VALVES /
 VÁLVULA DE SOBREPRESIÓN
 SICHERHEITSENTILTE
 VALVOLE DI SOVRAPRESSIONE
 SOUPEPE 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



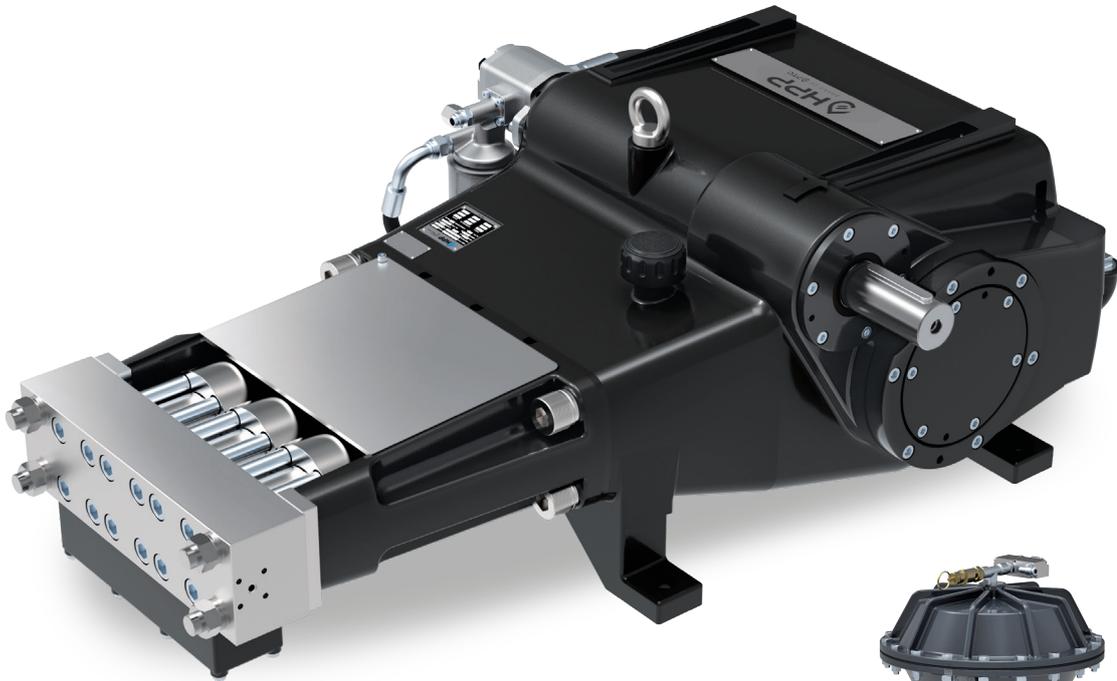
NON RETURN VALVE /
 VÁLVULAS ANTI RITORNO /
 ABSPERRVENTIL /
 VALVOLE DI NON RITORNO /
 VALVE DE NON RETOUR





H-SERIES

New series of high pressure pumps



Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-90 SAP IV ON REQUEST SU RICHIESTA	16	1500	27	7,1	1460	21175	72	98	240	529
		1800	27	7,1	1460	21175	72	98	240	529
	18	1500	34	9,0	1150	16679	71	97	240	529
		1800	34	9,0	1150	16679	71	97	240	529
	20	1500	42	11,1	930	13488	71	97	240	529
		1800	42	11,1	930	13488	71	97	240	529
	22	1500	50	13,2	770	11168	71	96	240	529
		1800	51	13,5	770	11168	72	98	240	529
	24	1500	60	15,9	650	9427	71	97	240	529
		1800	61	16,1	650	9427	73	99	240	529
	26	1500	70	18,5	550	7977	71	96	240	529
		1800	72	19,0	550	7977	73	99	240	529

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-100 SAP IV 	30	1500	88	23,2	500	7250	81	109	400	882
		1800	85	22,5	500	7250	79	106	400	882
	32	1500	100	26,4	420	6090	78	105	400	882
		1800	97	25,6	420	6090	75	101	400	882
	35	1500	119	31,4	330	4785	73	98	400	882
		1800	116	30,6	330	4785	71	95	400	882
	40	1500	156	41,2	270	3915	78	105	400	882
		1800	151	39,9	270	3915	76	102	400	882

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-150 SAP IV 	20	1500	39	10,3	1500	21755	108	147	400	882
		1800	38	10,0	1500	21755	105	143	400	882
	22	1500	47	12,4	1400	20305	122	164	400	882
		1800	46	12,2	1400	20305	119	160	400	882
	24	1500	56	14,8	1200	17405	125	168	400	882
		1800	54	14,3	1200	17405	121	162	400	882
	26	1500	66	17,4	1000	14505	122	164	400	882
		1800	64	16,9	1000	14505	118	158	400	882
	28	1500	76	20,1	830	12040	117	157	400	882
		1800	74	19,6	830	12040	114	153	400	882
	30	1500	88	23,2	750	10880	122	164	400	882
		1800	85	22,5	750	10880	118	158	400	882
	32	1500	100	26,4	640	9285	118	158	400	882
		1800	97	25,6	640	9285	115	154	400	882
	35	1500	119	31,4	560	8125	124	166	400	882
		1800	116	30,6	560	8125	120	161	400	882
	40	1500	156	41,2	400	5800	116	156	400	882
		1800	151	39,9	400	5800	112	150	400	882

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-200 SAP IV H V	22	1500	55	14,5	1500	21755	152	204	500	1103
		1800	54	14,3	1500	21755	150	201	500	1103
	24	1500	65	17,2	1300	18855	156	209	500	1103
		1800	64	16,9	1300	18855	155	208	500	1103
	26	1500	76	20,1	1200	17405	169	227	500	1103
		1800	76	20,1	1200	17405	168	225	500	1103
	28	1500	88	23,2	1000	14505	164	220	500	1103
		1800	88	23,2	1000	14505	162	217	500	1103
	30	1500	101	26,7	800	11605	150	201	500	1103
		1800	101	26,7	800	11605	149	200	500	1103
	32	1500	115	30,4	700	10155	150	201	500	1103
		1800	115	30,4	700	10155	149	200	500	1103
	35	1500	138	36,5	600	8705	153	205	500	1103
		1800	137	36,2	600	8705	152	204	500	1103
	40	1500	180	47,6	450	6525	150	201	500	1103
		1800	179	47,3	450	6525	149	200	500	1103

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-300 SAP IV H V	30	1500	100	26,4	1400	20305	259	347	700	1544
		1800	102	26,9	1400	20305	264	354	700	1544
	32	1500	113	29,9	1200	17405	252	338	700	1544
		1800	116	30,6	1200	17405	258	346	700	1544
	35	1500	136	35,9	1000	14505	251	337	700	1544
		1800	139	36,7	1000	14505	257	345	700	1544
	40	1500	177	46,8	750	10880	246	330	700	1544
		1800	181	47,8	750	10880	252	338	700	1544

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-550 SAP IV H	35	1500	156	41,2	1400	20305	400	544	1500	3307
		1800	135	35,7	1500	21755	371	504	1500	3307
	40	1500	204	53,9	1100	15955	415	557	1500	3307
		1800	176	46,5	1250	18130	408	547	1500	3307
	45	1500	258	68,2	860	12475	410	550	1500	3307
		1800	223	58,9	1000	14505	414	555	1500	3307

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-100 UAP IV H V	12	1500	14	3,7	2800	40610	73	98	400	882
		1800	13,5	3,6	2800	40610	71	95	400	882
	14	1500	19	5,0	2500	36260	88	118	400	882
		1800	18,5	4,9	2500	36260	86	115	400	882
	16	1500	25	6,6	2000	29010	92	123	400	882
		1800	24	6,3	2000	29010	90	121	400	882
	18	1500	32	8,5	1400	20305	82	110	400	882
		1800	31	8,2	1400	20305	79	106	400	882
	20	1500	39	10,3	1000	14505	72	97	400	882
		1800	38	10,0	1000	14505	70	94	400	882

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-150 UAP IV H V	16	1500	25	6,6	2800	40610	129	173	400	882
		1800	24	6,3	2800	40610	126	169	400	882
	18	1500	32	8,5	2200	31910	129	173	400	882
		1800	31	8,2	2200	31910	125	168	400	882
	20	1500	39	10,3	1800	26105	130	174	400	882
		1800	38	10	1800	26105	126	169	400	882

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-200 UAP IV  → H  ↑ V	16	1500	29	7,7	2800	40610	150	201	500	1103
		1800	28,5	7,5	2800	40610	149	200	500	1103
	18	1500	37	9,8	2500	36260	169	227	500	1103
		1800	36	9,5	2500	36260	168	225	500	1103
	20	1500	45	11,9	2000	29010	167	224	500	1103
		1800	45	11,9	2000	29010	166	223	500	1103

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-300 UAP IV  → H  ↑ V	20	1500	44	11,6	2800	40610	230	308	700	1544
		1800	45	11,9	2800	40610	235	315	700	1544

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-100 SAP L    	45	1500	197	52,0	215	3120	79	106	400	882
		1800	191	50,5	215	3120	76	102	400	882
	55	1500	295	77,9	145	2105	79	107	400	882
		1800	286	75,6	145	2105	76	103	400	882
	65	1500	412	108,9	103	1495	79	106	400	882
		1800	400	105,7	103	1495	76	102	400	882

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-150 SAP L    	45	1500	197	52,0	320	4640	117	157	400	882
		1800	191	50,5	320	4640	113	152	400	882
	55	1500	295	77,9	215	3120	116	158	400	882
		1800	286	75,6	215	3120	113	153	400	882
	65	1500	412	108,9	150	2175	114	153	400	882
		1800	400	105,7	150	2175	111	149	400	882

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-200 SAP L  	45	1500	228	60,2	355	5150	150	201	500	1103
		1800	227	60,0	355	5150	149	200	500	1103
	55	1500	341	90,1	240	3480	150	204	500	1103
		1800	339	89,6	240	3480	149	203	500	1103
	65	1500	476	125,8	170	2465	150	201	500	1103
		1800	473	125	170	2465	149	200	500	1103

Pump										
	Ø mm	rpm	l/min	US gpm	bar	psi	kW	HP	kg	lb
H-300 SAP L  	45	1500	224	59,2	600	8705	249	334	700	1544
		1800	230	60,8	600	8705	255	342	700	1544
	65	1500	468	123,6	290	4205	251	337	700	1544
		1800	479	126,6	290	4205	257	345	700	1544

PUMP ACCESSORIES / ACCESORIO PARA BOMBA / ZUBEHÖR PUMPE / ACCESSORI POMPA / ACCESSOIRES POMPE

MOUNTING BLOCKS /
BLOQUES DE MONTAJE /
MONTAGEBLÖCKE /
BLOCCHI DI MONTAGGIO /
BLOCS DE MONTAGE



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



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

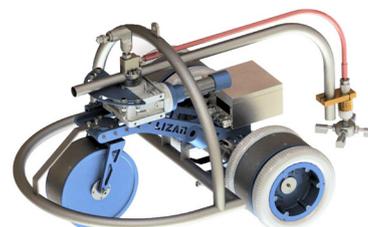


PRESSURE GAUGE /
MANÓMETRO /
MANOMETER /
MANOMETRO /
MANOMÈTRE



ACCESSORIES FOR SURFACE PREPARATION / ACCESORIOS PARA LA LIMPIEZA DE SUPERFICIES / ZUBEHÖR FÜR DIE OBERFLÄCHENVORBEREITUNG / ACCESSORI PER PREPARAZIONE SUPERFICI / ACCESSOIRES POUR LA PRÉPARATION DES SURFACES

PTC offers a wide range of accessories for deep cleaning of work surfaces / PTC ofrece una amplia gama de accesorios para la limpieza y preparación de superficies / PTC bietet eine breite palette an zubehör für die tiefenreinigung von arbeitsflächen / PTC offre un'ampia gamma di accessori per la pulizia profonda delle superfici / PTC propose une large gamme d'accessoires pour le nettoyage en profondeur des surfaces de travail



ACCESSORIES FOR PIPE CLEANING / ACCESORIOS PARA LA LIMPIEZA DE TUBERIAS / ZUBEHÖR FÜR DIE ROHRREINIGUNG / ACCESSORI PER LA PULIZIA TUBI / ACCESSOIRES POUR LE NETTOYAGE DES TUYAUX

Rotating nozzles for hoses and lances, and other accessories for removing dirt in pipes / Toberas rotativas para mangueras y lanzas, y otros accesorios para la limpieza de tuberías / Rotierende Düsen für Schläuche und Lanzen sowie weiteres Zubehör zum Entfernen von Schmutz in Rohren / Ugelli rotanti per tubi e lance ed altri accessori per rimuovere lo sporco dalle tubazioni / Buses rotatives pour tuyaux et lances, et autres accessoires pour éliminer saletés dans les canalisations

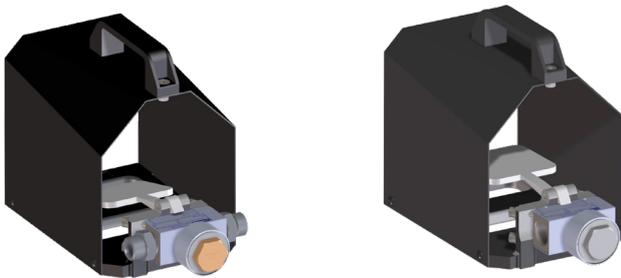


WATER BLASTING GUNS / PISTOLAS PARA WATER BLASTING / WASSERSTRAHLPISTOLEN / PISTOLE PER WATER BLASTING / PISTOLETS UHP

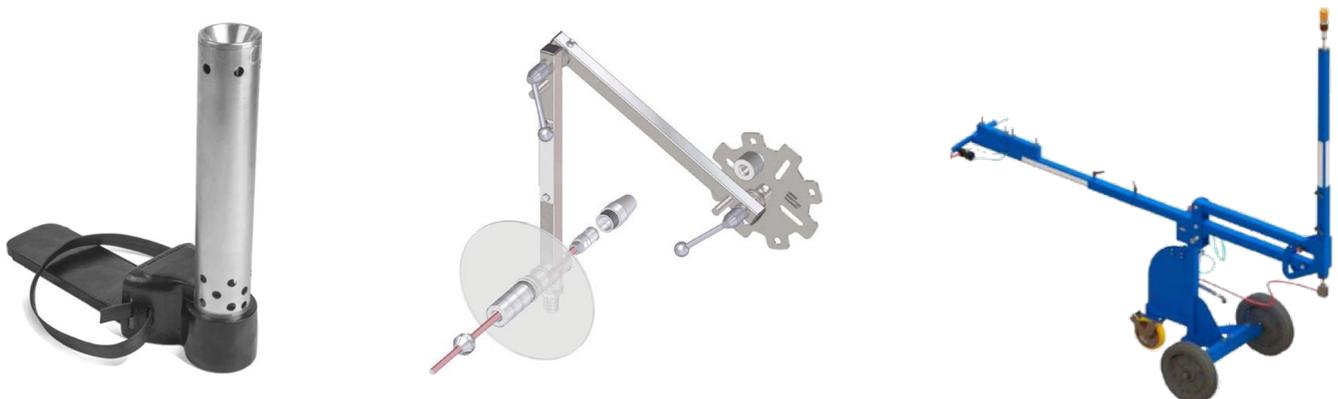
The H-Series guns have several features that allow them to adapt to different application heads and customer needs / Las pistolas Serie H tienen varias características que les permiten adaptarse a diferentes tipos de toberas y necesidades del cliente / Die Pistolen der H-Serie verfügen über mehrere Funktionen, die eine Anpassung an unterschiedliche Auftragsköpfe und Kundenbedürfnisse ermöglichen / Le pistole serie-H hanno molteplici caratteristiche che permettono loro di adattarsi a diverse teste di applicazione ad alle esigenze dei clienti / Les pistolets de la série H possèdent plusieurs fonctionnalités qui leur permettent de s'adapter aux différentes têtes d'application et aux besoins des clients



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



OTHER ACCESSORIES / OTROS ACCESORIOS / SONSTIGES ZUBEHÖR / ALTRI ACCESSORI / AUTRES ACCESSOIRES



HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p>ALLUMINIUM AND STEEL MILLS</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>200 - 2.800 (3.000 - 40.000)</p>



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

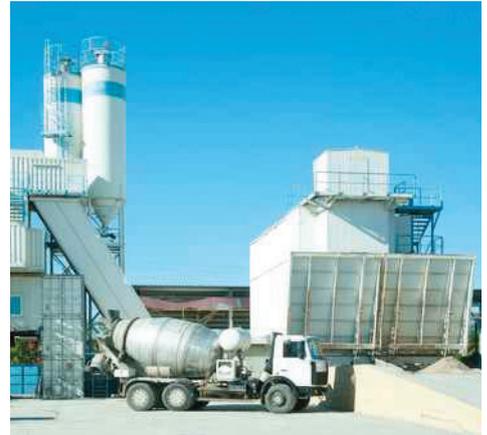
Application	Bar (Psi)
<p>AVIATION</p> <p>Expansion joints, grease, rubber and hydraulic fluids on airport runways.</p>	<p>700 - 1.400 (10.000 - 20.000)</p>



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

HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p>CEMENT PLANTS</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>200 - 1.000 (3.000 - 15.000)</p>



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

Application	Bar (Psi)
<p>CONSTRUCTION AND RENOVATION</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>200 - 2.800 (3.000 - 40.000)</p>



Application	Bar (Psi)
<p>FOOD AND BEVERAGES PROCESSING</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>200 - 1.000 (3.000 - 15.000)</p>

HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

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



Application	Bar (Psi)
<p>HYDRODEMOLITION 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>1.000 - 2.800 (15.000 - 40.000)</p>

Application	Bar (Psi)
<p>MARINE 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>350 - 2.800 (5.000 - 40.000)</p>



Application	Bar (Psi)
<p>MILITARY 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>700 - 2.800 (10.000 - 40.000)</p>

HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p>MINING</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>100 - 500 (1.500 - 7.000)</p>



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

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



Application	Bar (Psi)
<p>PETROCHEMICAL PROCESSING AND REFINERIES</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>	<p>350 - 2.800 (5.000 - 40.000)</p>

HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

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



Application	Bar (Psi)
<p>PIPES (INDUSTRIAL) 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>100 - 700 (1.500 - 10.000)</p>

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



Application	Bar (Psi)
<p>PRESSURE TESTING 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>400 - 7.000 (6.000 - 100.000)</p>

HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

Application	Bar (Psi)
<p>PULP & PAPER</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>350 - 700 (5.000 - 10.000)</p>



Application	Bar (Psi)
 <p>RAILWAYS</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>350 - 2.800 (5.000 - 40.000)</p>

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



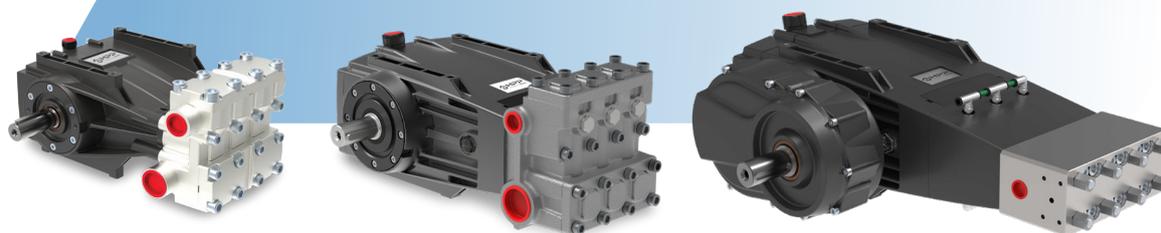
Application	Bar (Psi)
 <p>TRAFFIC AND TRANSPORTS</p> <p>Removal of road markings, cleaning of railway carriages and buses, renovation of concrete surfaces; cleaning of grease, vegetation, mud, tar, cement or asphalt on vehicles and machinery; graffiti, stains, tar and mastics on concrete bridges and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



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