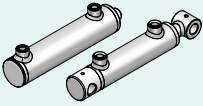
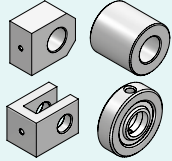
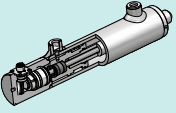
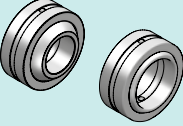
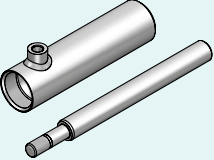
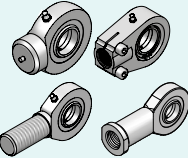
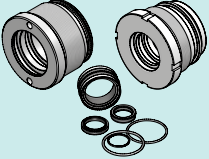
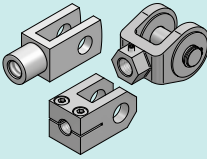
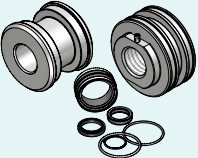
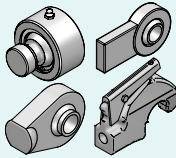
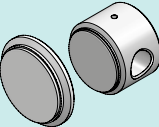
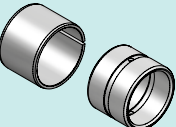
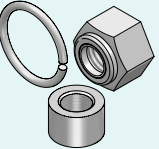
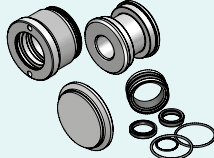
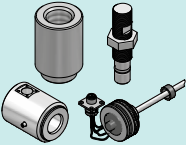
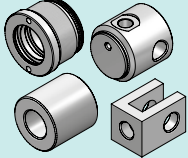
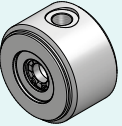
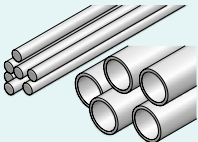
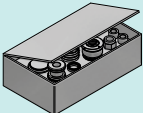
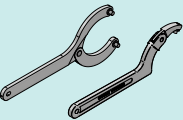
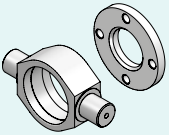
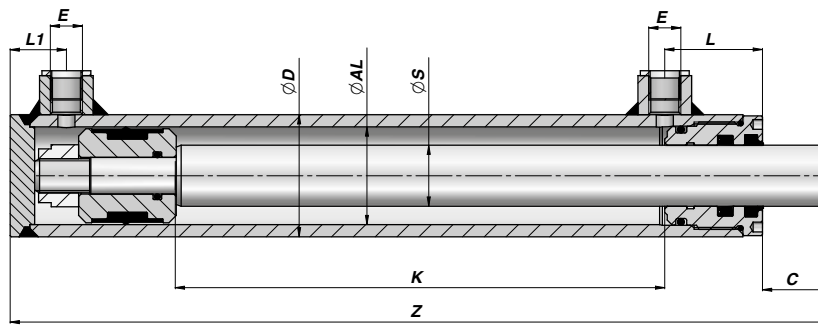
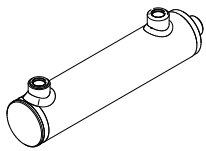


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## CILINDRI STANDARD STANDARD CYLINDERS

	Descrizione - Description	Series	Type	Page
	CILINDRO DOPPIO EFFETTO STANDARD STANDARD DOUBLE ACTING CYLINDER	M250	HMO	10÷11
	<b>NEW!</b> CILINDRO DOPPIO EFFETTO STANDARD STANDARD DOUBLE ACTING CYLINDER	C200	HMOLM	12
	CILINDRO DOPPIO EFFETTO STANDARD STANDARD DOUBLE ACTING CYLINDER	P350	HMOPM	13
	<b>NEW!</b> CILINDRO DOPPIO EFFETTO FLANGIATO DOUBLE ACTING CYLINDER WITH FLANGE	M250	HMF	14
	CILINDRO STABILIZZATORE HYDRAULIC STABILIZER CYLINDER	M250	HMS	15
	CILINDRO DOPPIO EFFETTO TIPO "HFR2S" DOUBLE ACTING CYLINDER "HFR2S" TYPE	M250	HFR2S	16÷17
	CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI DOUBLE ACTING CYLINDER WITH ENDS	M250	HM1	18÷19
	CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI DOUBLE ACTING CYLINDER WITH ENDS	M250	HM2	20÷21
	CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI DOUBLE ACTING CYLINDER WITH ENDS	M250	HM5	22÷23
	CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI DOUBLE ACTING CYLINDER WITH ENDS	M250	HMB	24÷25
	CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI DOUBLE ACTING CYLINDER WITH ENDS	M250	HMC	26÷27
	CILINDRO TUFFANTE STANDARD STANDARD PLUNGER CYLINDER	M250	HTO	28
	CILINDRO TUFFANTE TIPO "HFRT" PLUNGER CYLINDER "HFRT" TYPE	M250	HFRT	29
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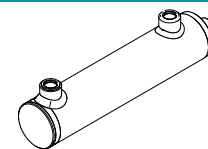
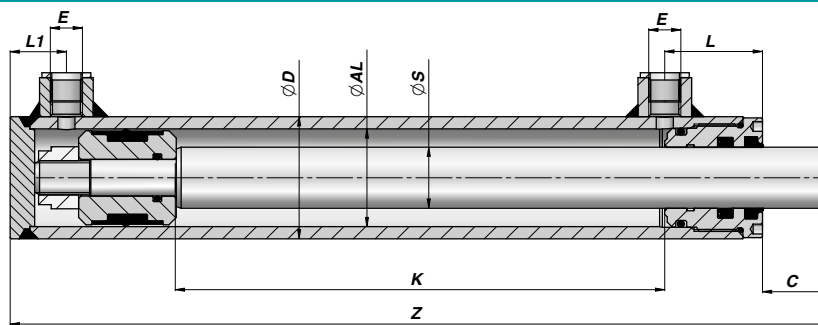


Codice Code	K	Z	kg	E BSP	L	L1	C	Codice Code	K	Z	kg
<b>ØD 35 ØAL 25 ØS 16</b>											
HM0025160050	50	135	0,71	1/4"	33	15	17				
HM0025160100	100	185	0,97								
HM0025160150	150	235	1,23								
HM0025160200	200	285	1,50								
<b>ØD 42 ØAL 32 ØS 20</b>											
HM0032200050	50	155	1,27	1/4"	33	20	16				
HM0032200100	100	205	1,62								
HM0032200150	150	255	1,97								
HM0032200200	200	305	2,33								
HM0032200250	250	355	2,68								
HM0032200300	300	405	3,03								
HM0032200400	400	505	3,73								
HM0032200500	500	605	4,42								
<b>ØD 50 ØAL 40 ØS 20</b>											
HM01200100	100	230	2,29	1/4"	40	23	22	<b>HM01250100</b>	100	230	2,45
HM01200150	150	280	2,69					<b>HM01250150</b>	150	280	2,92
HM01200200	200	330	3,09					<b>HM01250200</b>	200	330	3,40
HM01200250	250	380	3,49					<b>HM01250250</b>	250	380	3,86
HM01200300	300	430	3,83					<b>HM01250300</b>	300	430	4,33
HM01200350	350	480	4,29					<b>HM01250350</b>	350	480	4,80
HM01200400	400	530	4,69					<b>HM01250400</b>	400	530	5,27
HM01200450	450	580	5,08					<b>HM01250450</b>	450	580	5,74
HM01200500	500	630	5,49					<b>HM01250500</b>	500	630	6,21
								<b>HM01250550</b>	550	680	6,68
				<b>HM01250600</b>	600	730	7,14				
<b>ØD 60 ØAL 50 ØS 25</b>											
HM02250100	100	240	3,30	3/8"	43	26	22	<b>HM02300100</b>	100	240	3,51
HM02250150	150	290	3,83					<b>HM02300150</b>	150	290	4,12
HM02250200	200	340	4,36					<b>HM02300200</b>	200	340	4,70
HM02250250	250	390	4,89					<b>HM02300250</b>	250	390	5,40
HM02250300	300	440	5,42					<b>HM02300300</b>	300	440	6,00
HM02250350	350	490	5,95					<b>HM02300350</b>	350	490	6,60
HM02250400	400	540	6,48					<b>HM02300400</b>	400	540	7,20
HM02250450	450	590	7,01					<b>HM02300450</b>	450	590	7,81
HM02250500	500	640	7,54					<b>HM02300500</b>	500	640	8,42
HM02250550	550	690	8,07					<b>HM02300550</b>	550	690	9,00
HM02250600	600	740	8,60					<b>HM02300600</b>	600	740	9,70
HM02250700 <b>NEW!</b>	700	840	9,66					<b>HM02300700</b>	700	840	10,90
HM02250800	800	940	10,72					<b>HM02300800</b>	800	940	12,10
HM02251000	1000	1140	12,83					<b>HM02301000</b>	1000	1140	14,60
<b>ØD 70 ØAL 60 ØS 30</b>											
HM03300100	100	260	4,90	3/8"	50	30	23	<b>HM03350100</b>	100	260	5,10
HM03300150	150	310	5,60					<b>HM03350150</b>	150	310	5,90
HM03300200	200	360	6,20					<b>HM03350200</b>	200	360	6,70
HM03300250	250	410	6,90					<b>HM03350250</b>	250	410	7,50
HM03300300	300	460	7,60					<b>HM03350300</b>	300	460	8,20
HM03300350	350	510	8,30					<b>HM03350350</b>	350	510	9,00
HM03300400	400	560	8,90					<b>HM03350400</b>	400	560	9,80
HM03300450	450	610	9,60					<b>HM03350450</b>	450	610	10,60
HM03300500	500	660	10,30					<b>HM03350500</b>	500	660	11,30
HM03300550	550	710	11,00					<b>HM03350550</b>	550	710	12,10
HM03300600	600	760	11,60					<b>HM03350600</b>	600	760	12,90
HM03300700 <b>NEW!</b>	700	860	12,99					<b>HM03350700</b>	700	860	14,44
HM03300800	800	960	14,30					<b>HM03350800</b>	800	960	16,00
HM03301000	1000	1160	17,00					<b>HM03351000</b>	1000	1160	19,10

CILINDRO DOPPIO EFFETTO STANDARD  
STANDARD DOUBLE ACTING CYLINDER

HMO

Series M250



Codice Code	K	Z	kg	E BSP	L	L1	C	Codice Code	K	Z	kg	
<b>ØD 70 ØAL 60 ØS 40</b>								<b>ØD 73 ØAL 63 ØS 40</b>				
HM03400200	200	360	7,30					HM0063400200	200	360	7,50	
HM03400250	250	410	8,20					HM0063400250	250	410	8,40	
HM03400300	300	460	9,10					HM0063400300	300	460	9,30	
HM03400350	350	510	10,00					HM0063400350	350	510	10,30	
HM03400400	400	560	10,90					HM0063400400	400	560	11,20	
HM03400450	450	610	11,80					HM0063400450	450	610	12,10	
HM03400500	500	660	12,70	3/8"	50	30	23	HM0063400500	500	660	13,00	
HM03400550	550	710	13,60					HM0063400550	550	710	13,90	
HM03400600	600	760	14,40					HM0063400600	600	760	14,80	
HM03400700 <b>NEW!</b>	700	860	16,23					HM0063400700 <b>NEW!</b>	700	860	16,64	
HM03400800	800	960	18,00					HM0063400800	800	960	18,40	
HM03401000	1000	1160	21,60					HM0063401000	1000	1160	22,10	
<b>ØD 80 ØAL 70 ØS 35</b>								<b>ØD 80 ØAL 70 ØS 40</b>				
HM04350100	100	260	6,10					HM04400100 <b>NEW!</b>	100	260	6,48	
HM04350150	150	310	6,90					HM04400150 <b>NEW!</b>	150	310	7,43	
HM04350200	200	360	7,80					HM04400200	200	360	8,40	
HM04350250	250	410	8,60					HM04400250	250	410	9,30	
HM04350300	300	460	9,40					HM04400300	300	460	10,30	
HM04350350	350	510	10,30					HM04400350	350	510	11,20	
HM04350400	400	560	11,10	3/8"	50	33	23	HM04400400	400	560	12,20	
HM04350450	450	610	12,00					HM04400450	450	610	13,10	
HM04350500	500	660	12,80					HM04400500	500	660	14,10	
HM04350550	550	710	13,60					HM04400550	550	710	15,10	
HM04350600	600	760	14,50					HM04400600	600	760	15,99	
HM04350700 <b>NEW!</b>	700	860	16,15					HM04400700 <b>NEW!</b>	700	860	17,91	
HM04350800	800	960	17,80					HM04400800	800	960	19,80	
HM04351000	1000	1160	21,20					HM04401000	1000	1160	23,60	
<b>ØD 92 ØAL 80 ØS 40</b>								<b>ØD 92 ØAL 80 ØS 50</b>				
HM05400200	200	380	11,22					HM05500200	200	380	12,47	
HM05400250	250	430	12,34					HM05500250	250	430	13,88	
HM05400300	300	480	13,46					HM05500300	300	480	15,28	
HM05400400	400	580	15,72					HM05500400	400	580	18,09	
HM05400500	500	680	17,77	1/2"	60	35	25	HM05500500	500	680	20,90	
HM05400600	600	780	20,22					HM05500600 <b>NEW!</b>	600	780	23,70	
HM05400700 <b>NEW!</b>	700	880	22,47					HM05500700 <b>NEW!</b>	700	880	26,50	
HM05400800	800	980	24,72					HM05500800	800	980	29,50	
HM05401000	1000	1180	29,22					HM05501000	1000	1180	35,00	
<b>ØD 105 ØAL 90 ØS 50</b>								<b>ØD 115 ØAL 100 ØS 60</b>				
HM0090500300	300	486	19,30									
HM0090500400	400	586	22,64									
HM0090500500	500	686	25,97									
HM0090500600	600	786	29,30	1/2"	60	40	23					
HM0090500700 <b>NEW!</b>	700	886	32,63									
HM0090500800	800	986	35,97									
HM0090501000	1000	1186	42,64									
HM06500200	200	410	19,60									
HM06500250	250	460	21,38									
HM06500300	300	510	23,14					HM06600300	300	510	25,32	
HM06500400	400	610	26,65					HM06600400	400	610	29,52	
HM06500500	500	710	30,17	1/2"	82	38	25	HM06600500	500	710	33,71	
HM06500600	600	810	33,69					HM06600600 <b>NEW!</b>	600	810	37,90	
HM06500700 <b>NEW!</b>	700	910	37,21					HM06600700	700	910	42,10	
HM06500800	800	1010	40,72					HM06600800	800	1010	46,30	
HM06501000	1000	1210	47,50					HM06601000	1000	1210	54,69	

MATERIALE TUBO : ACCIAIO St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

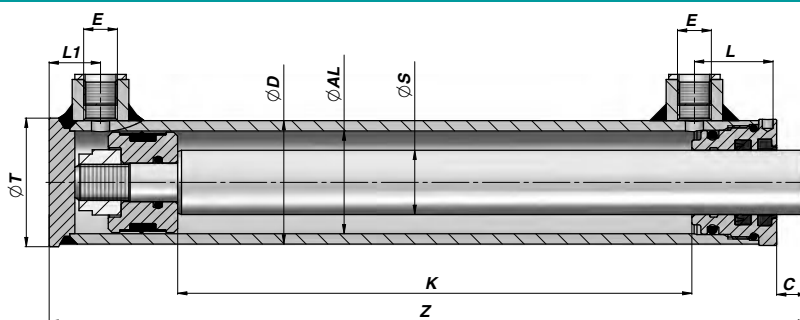
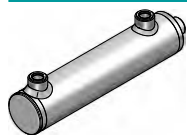
MATERIALE ASTA : ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h (ø16 120h) ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h (ø16 120h) ISO 10289 - 1999/ISO 9227-NSS

CARATTERISTICHE TECNICHE : VEDI PAGINA 30 - TECHNICAL SPECIFICATIONS : SEE PAGE 30

**HMOLM**

**CILINDRO DOPPIO EFFETTO STANDARD  
STANDARD DOUBLE ACTING CYLINDER**

**Series C200**



Codice Code	K	Z	kg	E BSP	L	L1	C	ØT	Codice Code	K	Z	kg
<b>ØD 48 ØAL 40 ØS 20</b>												
HMOLM0400200100	100	195	1,75	1/4"	32	20	12	50	HMOLM0400250100	100	195	1,90
HMOLM0400200150	150	245	2,09						HMOLM0400250150	150	245	2,31
HMOLM0400200200	200	295	2,43						HMOLM0400250200	200	295	2,72
HMOLM0400200250	250	345	2,76						HMOLM0400250250	250	345	3,14
HMOLM0400200300	300	395	3,09						HMOLM0400250300	300	395	3,53
HMOLM0400200400	400	495	3,78						HMOLM0400250400	400	495	4,35
HMOLM0400200500	500	595	4,46						HMOLM0400250500	500	595	5,17
<b>ØD 58 ØAL 50 ØS 25</b>												
HMOLM0500250100	100	205	2,60	3/8"	36	22	13	60	HMOLM0500300100	100	205	2,78
HMOLM0500250150	150	255	3,06						HMOLM0500300150	150	255	3,32
HMOLM0500250200	200	305	3,52						HMOLM0500300200	200	305	3,87
HMOLM0500250250	250	355	3,97						HMOLM0500300250	250	355	4,41
HMOLM0500250300	300	405	4,43						HMOLM0500300300	300	405	4,95
HMOLM0500250400	400	505	5,34						HMOLM0500300400	400	505	6,03
HMOLM0500250500	500	605	6,27						HMOLM0500300500	500	605	7,12
<b>ØD 68 ØAL 60 ØS 30</b>												
HMOLM0600300100	100	220	3,77	3/8"	39	25	13	70	HMOLM0600350100	100	220	3,99
HMOLM0600300150	150	270	4,36						HMOLM0600350150	150	270	4,68
HMOLM0600300200	200	320	4,95						HMOLM0600350200	200	320	5,37
HMOLM0600300250	250	370	5,54						HMOLM0600350250	250	370	6,06
HMOLM0600300300	300	420	6,13						HMOLM0600350300	300	420	6,75
HMOLM0600300400	400	520	7,32						HMOLM0600350400	400	520	8,14
HMOLM0600300500	500	620	8,50						HMOLM0600350500	500	620	9,52
<b>ØD 78 ØAL 70 ØS 35</b>												
HMOLM0700350100	100	220	4,82	3/8"	39	25	13	80				
HMOLM0700350150	150	270	5,56									
HMOLM0700350200	200	320	6,30						HMOLM0700400200	200	320	6,79
HMOLM0700350250	250	370	7,04						HMOLM0700400250	250	370	7,64
HMOLM0700350300	300	420	7,80						HMOLM0700400300	300	420	8,50
HMOLM0700350400	400	520	9,27						HMOLM0700400400	400	520	10,21
HMOLM0700350500	500	620	10,76						HMOLM0700400500	500	620	11,94

MATERIALE TUBO: ACCIAIO S1 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL S1 52.3 DIN 2393 ISO H9

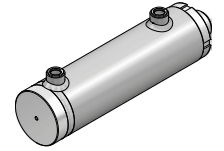
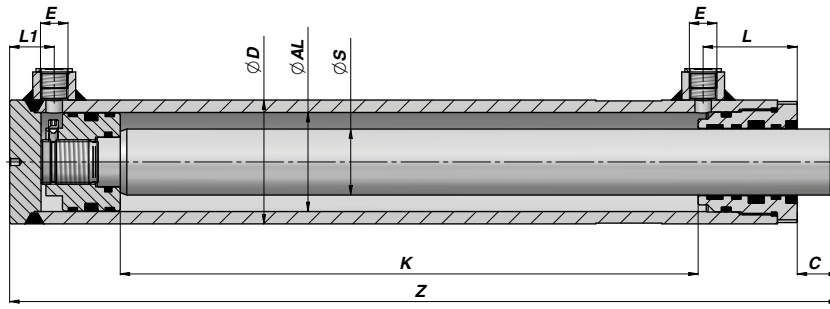
MATERIALE ASTA: ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS

CARATTERISTICHE TECNICHE : VEDI PAGINA 30 - TECHNICAL SPECIFICATIONS : SEE PAGE 30

**CILINDRO DOPPIO EFFETTO STANDARD**  
**STANDARD DOUBLE ACTING CYLINDER**

**NEW!** **HMOPM**

**Series P350**



Codice Code	K	Z	kg	E BSP	L	L1	C	Codice Code	K	Z	kg
<b>ØD 75 ØAL 60 ØS 40</b>											
HMOPM0600400200	200	350	8,71	3/8"	57	30	23				
HMOPM0600400400	400	550	13,12								
HMOPM0600400600	600	750	17,58								
HMOPM0600400800	800	950	22,03								
HMOPM0600401000	1000	1150	26,48								
<b>ØD 85 ØAL 70 ØS 40</b>											
HMOPM0700400200	200	375	11,21	3/8"	60	38	24				
HMOPM0700400400	400	575	16,00								
HMOPM0700400600	600	775	20,81								
HMOPM0700400800	800	975	25,62								
HMOPM0700401000	1000	1175	30,43								
<b>ØD 100 ØAL 80 ØS 50</b>											
HMOPM0800500200	200	395	17,11	1/2"	67	42	28				
HMOPM0800500400	400	595	24,59								
HMOPM0800500600	600	795	32,06								
HMOPM0800500800	800	995	39,53								
HMOPM0800501000	1000	1195	47,01								
<b>ØD 110 ØAL 90 ØS 60</b>											
HMOPM0900600200	200	400	21,44	1/2"	70	48	30				
HMOPM0900600400	400	600	30,75								
HMOPM0900600600	600	800	40,06								
HMOPM0900600800	800	1000	49,37								
HMOPM0900601000	1000	1200	58,69								
<b>ØD 120 ØAL 100 ØS 60</b>											
HMOPM1000600200	200	405	24,33	1/2"	70	47	31				
HMOPM1000600400	400	605	34,13								
HMOPM1000600600	600	805	43,93								
HMOPM1000600800	800	1005	53,73								
HMOPM1000601000	1000	1205	63,53								
<b>ØD 145 ØAL 120 ØS 70</b>											
HMOPM1200700200	200	435	38,95	1/2"	75	58	33				
HMOPM1200700400	400	635	53,11								
HMOPM1200700600	600	835	67,27								
HMOPM1200700800	800	1035	81,42								
HMOPM1200701000	1000	1235	95,59								

Progettato nel rispetto della normativa DNV PART 4 CHAPTER 7 RULES SHIPS / HIGH SPEED, LIGHT CRAFT AND NAVAL SURFACE CRAFT – PRESSURE  
Designed in accordance with the norm DNV PART 4 CHAPTER 7 RULES SHIPS / HIGH SPEED, LIGHT CRAFT AND NAVAL SURFACE CRAFT – PRESSURE

MATERIALE TUBO: ACCIAIO St 52.3 DIN 2391 ISO H8      MATERIALE ASTA: ACCIAIO 20MnV6 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS  
TUBE MATERIAL : STEEL St 52.3 DIN 2391 ISO H8      ROD MATERIAL : STEEL 20MnV6 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS

A RICHIESTA - ON REQUEST:

STELO : 42CrMO4 BONIFICATO e TEMPRATO - CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS

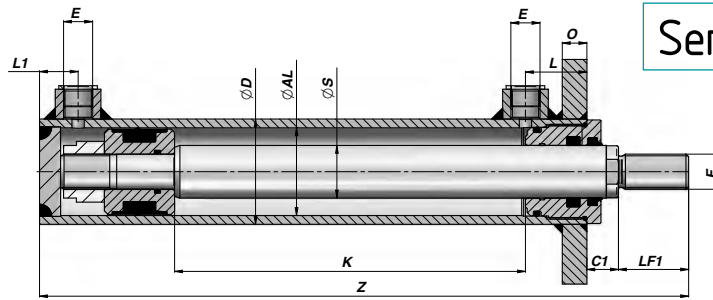
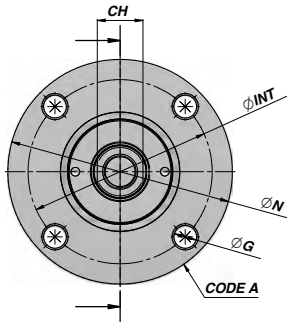
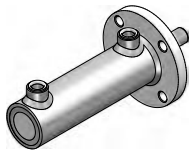
ROD : 42CrMO4 RECLAIMED and INDUCTION-HARDENED - CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS

CARATTERISTICHE TECNICHE : VEDI PAGINA 32 - TECHNICAL SPECIFICATIONS : SEE PAGE 32

HMF

CILINDRO DOPPIO EFFETTO FLANGIATO  
DOUBLE ACTING CYLINDER WITH FLANGE

Series M250



Codice Code	K	Z	kg	E BSP	L	L1	F	LF1	CH	C1	ØN	ØINT	ØG	O	Code A
<b>ØD 50    ØAL 40    ØS 20</b>															
HMF1200100	100	250	2,99												
HMF1200200	200	350	3,78												
HMF1200300	300	450	4,58	1/4"	32	25	M16x1.5	30	18	18	109	87	ø 11 x 4	12	CFL0050109
HMF1200400	400	550	5,38												
HMF1200500	500	650	6,17												
<b>ØD 60    ØAL 50    ØS 30</b>															
HMF2300100	100	270	4,65												
HMF2300200	200	370	5,84												
HMF2300300	300	470	7,08	3/8"	35	25	M20x1.5	40	26	18	128	105	ø 13 x 4	14	CFL0060128
HMF2300400	400	570	8,30												
HMF2300500	500	670	9,54												
<b>ØD 70    ØAL 60    ØS 35</b>															
HMF3350100	100	300	6,73												
HMF3350200	200	400	8,28												
HMF3350300	300	500	9,89	3/8"	40	30	M27x2	50	32	20	142	117	ø 13 x 4	16	CFL0070142
HMF3350400	400	600	11,36												
HMF3350500	500	700	12,94												
<b>ØD 80    ØAL 70    ØS 40</b>															
HMF4400100	100	312	8,64												
HMF4400200	200	412	10,55												
HMF4400300	300	512	12,46	3/8"	40	30	M30x2	60	36	22	162	127	ø 15 x 4	16	CFL0080162
HMF4400400	400	612	14,23												
HMF4400500	500	712	16,27												
<b>ØD 95    ØAL 80    ØS 50</b>															
HMF5500100	100	345	13,71												
HMF5500200	200	445	16,78												
HMF5500300	300	545	19,92	1/2"	50	40	M36x2	70	45	25	181	149	ø 17 x 6	18	CFL0095181
HMF5500400	400	645	23,15												
HMF5500500	500	745	26,22												
<b>ØD 115    ØAL 100    ØS 50</b>															
HMF6500100	100	375	20,31												
HMF6500200	200	475	23,82												
HMF6500300	300	575	27,35	1/2"	70	40	M36x2	70	45	27	194	162	ø 17 x 6	24	CFL0115194
HMF6500400	400	675	30,86												
HMF6500500	500	775	34,37												

MATERIALE TUBO: ACCIAIO St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

MATERIALE ASTA: ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS

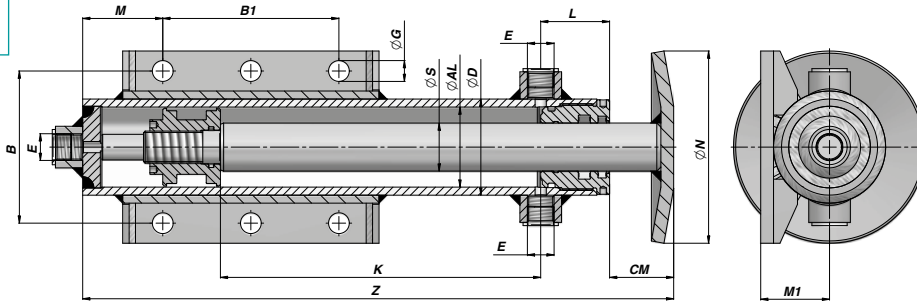
CARATTERISTICHE TECNICHE : VEDI PAGINA 30 - TECHNICAL SPECIFICATIONS : SEE PAGE 30

CILINDRO STABILIZZATORE  
HYDRAULIC STABILIZER CYLINDER

NEW!

HMS

Series M250



Codice Code	K	Z	kg	E BSP	L	CM	ØN	M1	B	M	B1	ØG	Codice Code	K	Z	kg
<b>ØD 50 ØAL 40 ØS 25</b>																
HMS00400250200	200	369	6,36	3/8"	40	40	110	38	85	50	100	13				
HMS00400250300	300	469	7,30													
HMS00400250400	400	569	8,23													
HMS00400250500	500	669	9,17													
HMS00400250600	600	769	10,11													
<b>ØD 60 ØAL 50 ØS 30</b>																
HMS00500300200	200	369	8,19	3/8"	43	40	120	43	95	50	110	13				
HMS00500300300	300	469	9,42													
HMS00500300400	400	569	10,65													
HMS00500300500	500	669	11,87													
HMS00500300600	600	769	13,11													
<b>ØD 70 ØAL 60 ØS 35</b>													<b>ØD 70 ØAL 60 ØS 40</b>			
HMS00600350200	200	371	11,10	3/8"	50	40	130	50	105	53	125	13	HMS00600400200	200	371	11,65
HMS00600350300	300	471	12,65										HMS00600400300	300	471	13,43
HMS00600350400	400	571	14,20										HMS00600400400	400	571	15,21
HMS00600350500	500	671	15,75										HMS00600400500	500	671	16,99
HMS00600350600	600	771	17,30										HMS00600400600	600	771	18,77
<b>ØD 80 ØAL 70 ØS 40</b>													<b>ØD 80 ØAL 70 ØS 50</b>			
HMS00700400200	200	410	14,16	1/2"	50	50	150	55	120	53	125	15	HMS00700500200	200	410	14,70
HMS00700400300	300	510	15,83										HMS00700500300	300	510	16,60
HMS00700400400	400	610	17,51										HMS00700500400	400	610	18,51
HMS00700400500	500	710	19,18										HMS00700500500	500	710	19,49
HMS00700400600	600	810	20,85										HMS00700500600	600	810	22,31
<b>ØD 90 ØAL 80 ØS 40</b>													<b>ØD 90 ØAL 80 ØS 50</b>			
HMS00800400200	200	410	17,69	1/2"	60	50	160	62	125	58	145	15	HMS00800500200	200	410	19,04
HMS00800400300	300	510	19,72										HMS00800500300	300	510	21,62
HMS00800400400	400	610	21,74										HMS00800500400	400	610	24,20
HMS00800400500	500	710	23,77										HMS00800500500	500	710	26,78
HMS00800400600	600	810	25,80										HMS00800500600	600	810	29,36
<b>ØD 100 ØAL 90 ØS 40</b>													<b>ØD 100 ØAL 90 ØS 50</b>			
HMS00900400200	200	410	20,30	1/2"	60	50	170	67	135	60	150	15	HMS00900500200	200	410	21,65
HMS00900400300	300	510	22,45										HMS00900500300	300	510	24,35
HMS00900400400	400	610	24,59										HMS00900500400	400	610	27,05
HMS00900400500	500	710	26,74										HMS00900500500	500	710	29,76
HMS00900400600	600	810	28,89										HMS00900500600	600	810	32,46
<b>ØD 110 ØAL 100 ØS 50</b>													<b>ØD 110 ØAL 100 ØS 60</b>			
HMS01000500200	200	420	26,92	1/2"	82	60	180	73	145	60	170	15	HMS01000600200	200	420	28,61
HMS01000500300	300	520	29,74										HMS01000600300	300	520	32,11
HMS01000500400	400	620	32,57										HMS01000600400	400	620	35,61
HMS01000500500	500	720	35,39										HMS01000600500	500	720	39,11
HMS01000500600	600	820	38,22										HMS01000600600	600	820	42,61

MATERIALE TUBO: ACCIAIO St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

MATERIALE ASTA: ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS

ALTRE MISURE A RICHIESTA - OTHER DIMENSIONS ON REQUEST

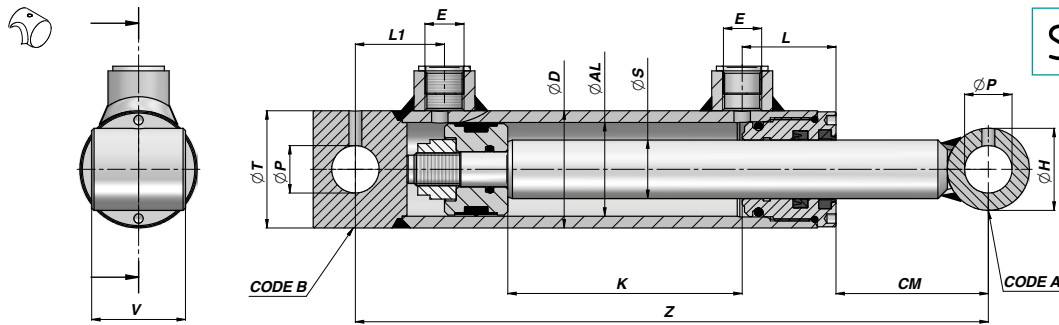
CARATTERISTICHE TECNICHE : VEDI PAGINA 34 - TECHNICAL SPECIFICATIONS : SEE PAGE 34



**HFR2S**

CILINDRO DOPPIO EFFETTO TIPO "HFR2S"  
DOUBLE ACTING CYLINDER "HFR2S" TYPE

Series M250



Codice Code	K	Z	kg	E BSP	L	L1	CM	ØP	ØAL	ØS	V	ØT	Code A	Code B	Codice Code	K	Z	kg
<b>ØD 35 ØAL 25 ØS 16</b>																		
HFR0160050	50	160	0,92															
HFR0160100	100	210	1,18															
HFR0160150	150	260	1,45	1/4"	33	22	31	12,10	25	25	35		CBF0012025025	CFHR035025				
HFR0160200	200	310	1,71															
<b>ØD 42 ØAL 32 ØS 20</b>																		
HFR0200050	50	205	1,71															
HFR0200100	100	255	2,06															
HFR0200150	150	305	2,41															
HFR0200200	200	355	2,76															
HFR0200250	250	405	3,11															
HFR0200300	300	455	3,46	1/4"	33	35	51	16,20	30	35	40		CBF0016030035	CFHR040032				
HFR0200400	400	555	4,16															
HFR0200500	500	655	4,86															
HFR0200600	600	755	5,56															
HFR0200700	700	855	6,26															
<b>ØD 50 ØAL 40 ØS 25</b>																		
HFR2S0400250100	100	270	2,94															
HFR2S0400250150	150	320	3,41															
HFR2S0400250200	200	370	3,88															
HFR2S0400250250	250	420	4,35															
HFR2S0400250300	300	470	4,81															
HFR2S0400250400	400	570	5,75	3/8"	40	38	65	20,25	35	40	50		CBF1020035040	CFHR040020040				
HFR2S0400250500	500	670	6,69															
HFR2S0400250600	600	770	7,62															
HFR2S0400250700	700	870	8,56															
HFR2S0400250800	800	970	9,50															
HFR2S0400251000	1000	1170	11,37															
<b>ØD 60 ØAL 50 ØS 30</b>																		
HFR2S0500300100	100	300	4,41															
HFR2S0500300150	150	350	5,02															
HFR2S0500300200	200	400	5,64															
HFR2S0500300250	250	450	6,25															
HFR2S0500300300	300	500	6,86															
HFR2S0500300400	400	600	8,09															
HFR2S0500300500	500	700	9,32	3/8"	43	42	85	25,25	40	45	60		CBF1025040045	CFHR050025049				
HFR2S0500300600	600	800	10,55															
HFR2S0500300700	700	900	11,78															
HFR2S0500300800	800	1000	13,00															
HFR2S0500300900	900	1100	14,24															
HFR2S0500301000	1000	1200	15,46															

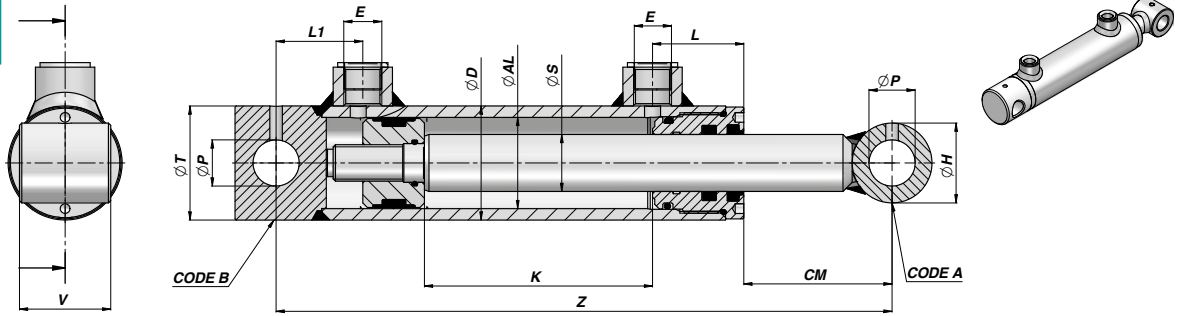
NEW!  
NEW!

NEW!

CILINDRO DOPPIO EFFETTO TIPO "HFR2S"  
DOUBLE ACTING CYLINDER "HFR2S" TYPE

HFR2S

Series M250



Codice Code	K	Z	kg	E BSP	L	L1	CM	ØP	ØH	V	ØT	Code A	Code B	Codice Code	K	Z	kg
<b>ØD 70 ØAL 60 ØS 30</b>																	
HFR2S0600300100	100	300	5,53											HFR2S0600350100	100	300	5,85
HFR2S0600300150	150	350	6,21											HFR2S0600350150	150	350	6,62
HFR2S0600300200	200	400	6,89											HFR2S0600350200	200	400	7,40
HFR2S0600300250	250	450	7,56											HFR2S0600350250	250	450	8,18
HFR2S0600300300	300	500	8,23											HFR2S0600350300	300	500	8,96
HFR2S0600300350	350	550	8,91											HFR2S0600350350	350	550	9,73
HFR2S0600300400	400	600	9,58											HFR2S0600350400	400	600	10,51
HFR2S0600300450	450	650	10,26	3/8"	50	36	83	25,25	40	45	70	CBF1025040045	CFHR060025047	HFR2S0600350450	450	650	11,28
HFR2S0600300500	500	700	10,94											HFR2S0600350500	500	700	12,06
HFR2S0600300600	600	800	12,29											HFR2S0600350600	600	800	13,61
HFR2S0600300700	700	900	13,64											HFR2S0600350700	700	900	15,16
														HFR2S0600350800	800	1000	16,71
														HFR2S0600350900	900	1100	18,27
														HFR2S0600351000	1000	1200	19,82
<b>ØD 80 ØAL 70 ØS 40</b>																	
HFR2S0700400200	200	410	10,07														
HFR2S0700400250	250	460	11,03														
HFR2S0700400300	300	510	11,99														
HFR2S0700400350	350	560	12,94														
HFR2S0700400400	400	610	13,89														
HFR2S0700400450	450	660	14,84	3/8"	50	46	82	30,25	50	55	80	CBF1030050055	CFHR070030063				
HFR2S0700400500	500	710	15,80														
HFR2S0700400600	600	810	17,70														
HFR2S0700400700	700	910	19,61														
HFR2S0700400800	800	1010	21,51														
HFR2S0700400900	900	1110	23,42														
HFR2S0700401000	1000	1210	25,32														
<b>ØD 92 ØAL 80 ØS 40</b>																	
HFR2S0800400200	200	410	12,85														
HFR2S0800400250	250	460	13,98														
HFR2S0800400300	300	510	15,10														
HFR2S0800400350	350	560	16,23														
HFR2S0800400400	400	610	17,35														
HFR2S0800400500	500	710	19,60	3/8"	60	42	70	30,25	50	55	90	CBF1030050055	CFHR080030060				
HFR2S0800400600	600	810	21,85														
HFR2S0800400700	700	910	24,10														
HFR2S0800400800	800	1010	26,36														
HFR2S0800400900	900	1110	28,61														
HFR2S0800401000	1000	1210	30,85														
<b>ØD 115 ØAL 100 ØS 50</b>																	
HFR2S1000500200	200	425	21,44														
HFR2S1000500300	300	525	24,96														
HFR2S1000500400	400	625	28,47														
HFR2S1000500500	500	725	31,99	1/2"	66	45	75	30,25	60	70	115	CBF1030060070	CFHR100030063				
HFR2S1000500700	700	925	39,02														
HFR2S1000500900	900	1125	46,06														
HFR2S1000501000	1000	1225	49,58														

MATERIALE TUBO : ACCIAIO St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

MATERIALE ASTA : ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h (ø16 120h) ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h (ø16 120h) ISO 10289 - 1999/ISO 9227-NSS

A RICHIESTA - ON REQUEST:  
CILINDRI CON INGRASSATORI CODICE ANGL000550 (VEDI PAGINA 103)  
CYLINDERS WITH GREASE NIPPLES CODE ANGL000550 (SEE PAGE 103)

CARATTERISTICHE TECNICHE : VEDI PAGINA 30 - TECHNICAL SPECIFICATIONS : SEE PAGE 30

Codice Code	K	Z	kg	E BSP	ØP	H	V	M	H1	V1	M1	Code A	Code B	Codice Code	K	Z	kg
<b>ØD 42 ØAL 32 ØS 20</b>																	
HM1032200050	50	275	1,84														
HM1032200100	100	325	2,18														
HM1032200150	150	375	2,53														
HM1032200200	200	425	2,88														
HM1032200250	250	475	3,24	1/4"	16,2	46	20	60	46	20	60	CSR0010495	CSR0010495				
HM1032200300	300	525	3,58														
HM1032200400	400	625	4,28														
HM1032200500	500	725	4,98														
<b>ØD 50 ØAL 40 ØS 20</b>													<b>ØD 50 ØAL 40 ØS 25</b>				
HM11200100	100	350	2,84											HM11250100	100	350	3,03
HM11200150	150	400	3,24											HM11250150	150	400	3,50
HM11200200	200	450	3,64											HM11250200	200	450	3,96
HM11200250	250	500	4,04											HM11250250	250	500	4,43
HM11200300	300	550	4,46											HM11250300	300	550	4,90
HM11200350	350	600	4,86	1/4"	16,2	46	20	60	46	20	60	CSR0010495	CSR0010495	HM11250350	350	600	5,37
HM11200400	400	650	5,26											HM11250400	400	650	5,84
HM11200450	450	700	5,66											HM11250450	450	700	6,31
HM11200500	500	750	6,06											HM11250500	500	750	6,78
														HM11250550	550	800	7,25
														HM11250600	600	850	7,71
<b>ØD 60 ØAL 50 ØS 25</b>													<b>ØD 60 ØAL 50 ØS 30</b>				
HM12250100	100	356	4,83											HM12300100	100	356	5,06
HM12250150	150	406	5,38											HM12300150	150	406	5,68
HM12250200	200	456	5,91											HM12300200	200	456	6,29
HM12250250	250	506	6,44											HM12300250	250	506	6,91
HM12250300	300	556	6,97											HM12300300	300	556	7,53
HM12250350	350	606	7,50											HM12300350	350	606	8,14
HM12250400	400	656	8,03											HM12300400	400	656	8,75
HM12250450	450	706	8,56	3/8"	20,2	62	44	58	62	44	58	CSR0010720	CSR0010720	HM12300450	450	706	9,36
HM12250500	500	756	9,06											HM12300500	500	756	9,95
HM12250550	550	806	9,62											HM12300550	550	806	10,60
HM12250600	600	856	10,15											HM12300600	600	856	11,20
HM12250700 <b>NEW!</b>	700	956	11,21											HM12300700	700	956	12,40
HM12250800	800	1056	12,27											HM12300800	800	1056	13,64
HM12251000	1000	1256	14,39											HM12301000	1000	1256	16,12
<b>ØD 70 ØAL 60 ØS 30</b>													<b>ØD 70 ØAL 60 ØS 35</b>				
HM13300100	100	390	7,44											HM13350100	100	390	7,65
HM13300150	150	440	8,11											HM13350150	150	440	8,42
HM13300200	200	490	8,78											HM13350200	200	490	9,20
HM13300250	250	540	9,46											HM13350250	250	540	9,98
HM13300300	300	590	10,14											HM13350300	300	590	10,79
HM13300350	350	640	10,82											HM13350350	350	640	11,56
HM13300400	400	690	11,47											HM13350400	400	690	12,32
HM13300450	450	740	12,17	3/8"	25,4	75	51	65	75	51	65	CSR0010740	CSR0010740	HM13350450	450	740	13,10
HM13300500	500	790	12,84											HM13350500	500	790	13,89
HM13300550	550	840	13,52											HM13350550	550	840	14,63
HM13300600	600	890	14,17											HM13350600	600	890	15,41
HM13300700 <b>NEW!</b>	700	990	15,55											HM13350700 <b>NEW!</b>	700	990	17,00
HM13300800	800	1090	16,90											HM13350800	800	1090	18,51
HM13301000	1000	1290	19,60											HM13351000	1000	1290	21,61



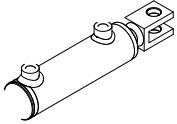




HM5

CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI  
DOUBLE ACTING CYLINDER WITH ENDS

Series M250



Codice Code	K	Z	kg	E BSP	ØP	H	V	M	H1	V1	M1	Code A	Code B	Codice Code	K	Z	kg		
<b>ØD 42 ØAL 32 ØS 20</b>																			
HM5032200050	50	214	1,75	1/4"	16,20	35	16	34	35	20	25	CFS0000016	COF1600000						
HM5032200100	100	264	2,10																
HM5032200150	150	314	2,45																
HM5032200200	200	364	2,80																
HM5032200250	250	414	3,15																
HM5032200300	300	464	3,50																
HM5032200400	400	564	4,20																
HM5032200500	500	664	4,90																
<b>ØD 50 ØAL 40 ØS 20</b>														<b>ØD 50 ØAL 40 ØS 25</b>					
HM51200100	100	289	2,77	1/4"	16,20	35	16	34	35	20	25	CFS0000016	COF1600000	HM51250100	100	289	2,94		
HM51200150	150	339	3,16											HM51250150	150	339	3,40		
HM51200200	200	389	3,56											HM51250200	200	389	3,87		
HM51200250	250	439	3,97											HM51250250	250	439	4,33		
HM51200300	300	489	4,36											HM51250300	300	489	4,81		
HM51200350	350	539	4,77											HM51250350	350	539	5,27		
HM51200400	400	589	5,16											HM51250400	400	589	5,74		
HM51200450	450	639	5,57											HM51250450	450	639	6,22		
HM51200500	500	689	5,97											HM51250500	500	689	6,68		
														HM51250550	550	739	7,15		
														HM51250600	600	789	7,61		
<b>ØD 60 ØAL 50 ØS 25</b>														<b>ØD 60 ØAL 50 ØS 30</b>					
HM52250100	100	310	4,05	3/8"	20,25	40	20	40	45	25	30	CFS0000020	COF2000000	HM52300100	NEW!	100	310	4,25	
HM52250150	150	360	4,60											HM52300150	NEW!	150	360	4,87	
HM52250200	200	410	5,14											HM52300200	200	410	5,48		
HM52250250	250	460	5,63											HM52300250	250	460	6,11		
HM52250300	300	510	6,16											HM52300300	300	510	6,74		
HM52250350	350	560	6,69											HM52300350	350	560	7,33		
HM52250400	400	610	7,23											HM52300400	400	610	7,96		
HM52250450	450	660	7,75											HM52300450	450	660	8,56		
HM52250500	500	710	8,26											HM52300500	500	710	9,17		
HM52250550	550	760	8,84											HM52300550	550	760	9,79		
HM52250600	600	810	9,34											HM52300600	600	810	10,40		
HM52250700	NEW!	700	910											10,40	HM52300700	700	910	11,63	
HM52250800	800	1010	11,46											HM52300800	800	1010	12,85		
HM52251000	1000	1210	13,58											HM52301000	1000	1210	15,31		
<b>ØD 70 ØAL 60 ØS 30</b>																			
HM53300100	100	340	6,22	3/8"	25,25	50	25	45	50	30	35	CFS0000025	COF2500000	HM53350100	100	340	6,45		
HM53300150	150	390	6,89											HM53350150	150	390	7,23		
HM53300200	200	440	7,57											HM53350200	200	440	8,00		
HM53300250	250	490	8,25											HM53350250	250	490	8,78		
HM53300300	300	540	8,92											HM53350300	300	540	9,56		
HM53300350	350	590	9,60											HM53350350	350	590	10,33		
HM53300400	400	640	10,28											HM53350400	400	640	11,11		
HM53300450	450	690	10,95											HM53350450	450	690	11,88		
HM53300500	500	740	11,63											HM53350500	500	740	12,66		
HM53300550	550	790	12,30											HM53350550	550	790	13,44		
HM53300600	600	840	12,97											HM53350600	600	840	14,21		
HM53300700	NEW!	700	940											14,33	HM53350700	NEW!	700	940	15,77
HM53300800	800	1040	15,68											HM53350800	800	1040	19,34		
HM53301000	1000	1240	18,38											HM53351000	1000	1240	20,42		

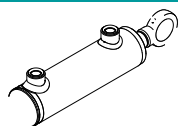




HMB

CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI  
DOUBLE ACTING CYLINDER WITH ENDS

Series M250

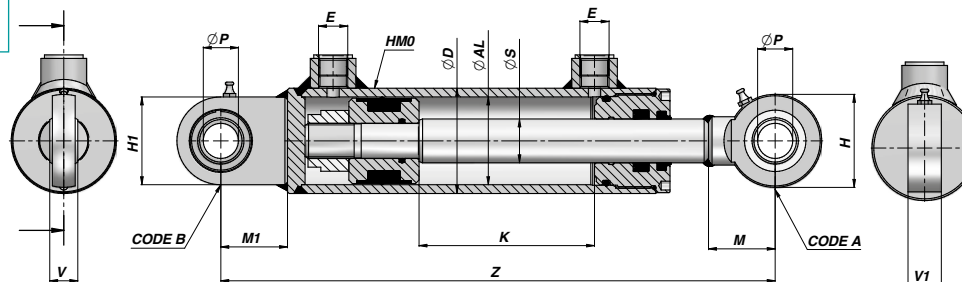


Codice Code	K	Z	kg	E BSP	ØP	H	V	M	H1	V1	M1	Code A	Code B	Codice Code	K	Z	kg	
<b>ØD 42 ØAL 32 ØS 20</b>																		
HMB032200050	50	225	1,75															
HMB032200100	100	275	2,09															
HMB032200150	150	325	2,44															
HMB032200200	200	375	2,79															
HMB032200250	250	425	3,15															
HMB032200300	300	475	3,49															
HMB032200400	400	575	4,19															
HMB032200500	500	675	4,90															
<b>ØD 50 ØAL 40 ØS 20</b>															<b>ØD 50 ØAL 40 ØS 25</b>			
HMB1200100	100	300	2,75											HMB1250100	100	300	2,94	
HMB1200150	150	350	3,15											HMB1250150	150	350	3,41	
HMB1200200	200	400	3,55											HMB1250200	200	400	3,89	
HMB1200250	250	450	3,96											HMB1250250	250	450	4,34	
HMB1200300	300	500	4,35											HMB1250300	300	500	4,81	
HMB1200350	350	550	4,75											HMB1250350	350	550	5,28	
HMB1200400	400	600	5,15											HMB1250400	400	600	5,75	
HMB1200450	450	650	5,55											HMB1250450	450	650	6,22	
HMB1200500	500	700	5,95											HMB1250500	500	700	6,68	
														HMB1250550	550	750	7,16	
														HMB1250600	600	800	7,62	
<b>ØD 60 ØAL 50 ØS 25</b>														<b>ØD 60 ØAL 50 ØS 30</b>				
HMB2250100	100	316	3,91											HMB2300100	100	316	4,11	
HMB2250150	150	366	4,43											HMB2300150	150	366	4,73	
HMB2250200	200	416	4,96											HMB2300200	200	416	5,34	
HMB2250250	250	466	5,49											HMB2300250	250	466	5,96	
HMB2250300	300	516	6,02											HMB2300300	300	516	6,58	
HMB2250350	350	566	6,55											HMB2300350	350	566	7,20	
HMB2250400	400	616	7,08											HMB2300400	400	616	7,80	
HMB2250450	450	666	7,61											HMB2300450	450	666	8,42	
HMB2250500	500	716	8,14											HMB2300500	500	716	9,04	
HMB2250550	550	766	8,67											HMB2300550	550	766	9,64	
HMB2250600	600	816	9,20											HMB2300600	600	816	10,27	
HMB2250700 <b>NEW!</b>	700	916	10,26											HMB2300700	700	916	11,50	
HMB2250800	800	1016	11,32											HMB2300800	800	1016	12,72	
HMB2251000	1000	1216	13,44											HMB2301000	1000	1216	15,18	
<b>ØD 70 ØAL 60 ØS 30</b>														<b>ØD 70 ØAL 60 ØS 35</b>				
HMB3300100	100	350	5,88											HMB3350100	100	350	6,12	
HMB3300150	150	400	6,56											HMB3350150	150	400	6,90	
HMB3300200	200	450	7,23											HMB3350200	200	450	7,68	
HMB3300250	250	500	7,91											HMB3350250	250	500	8,45	
HMB3300300	300	550	8,59											HMB3350300	300	550	9,22	
HMB3300350	350	600	9,26											HMB3350350	350	600	10,00	
HMB3300400	400	650	9,93											HMB3350400	400	650	10,78	
HMB3300450	450	700	10,61											HMB3350450	450	700	10,62	
HMB3300500	500	750	11,29											HMB3350500	500	750	12,33	
HMB3300550	550	800	11,96											HMB3350550	550	800	13,10	
HMB3300600	600	850	12,64											HMB3350600	600	850	13,88	
HMB3300700 <b>NEW!</b>	700	950	14,00											HMB3350700 <b>NEW!</b>	700	950	15,44	
HMB3300800	800	1050	15,34											HMB3350800	800	1050	16,99	
HMB3301000	1000	1250	18,04											HMB3351000	1000	1250	20,09	

CILINDRO DOPPIO EFFETTO STANDARD CON ATTACCHI  
DOUBLE ACTING CYLINDER WITH ENDS

HMB

## Series M250

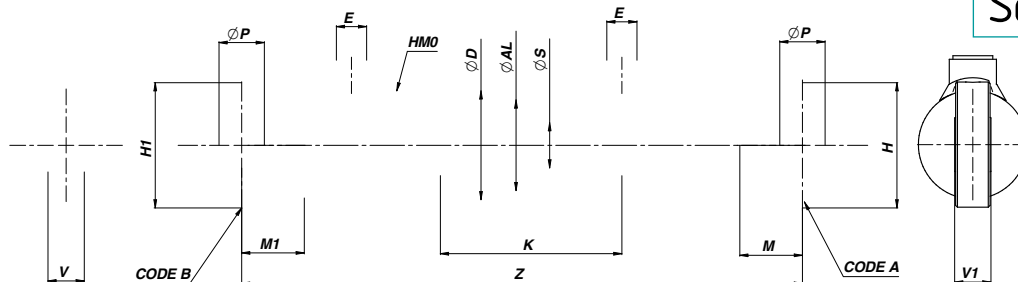
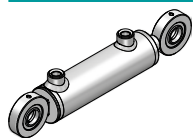


Codice Code	K	Z	kg	E BSP	ØP	H	V	M	H1	V1	M1	Code A	Code B	Codice Code	K	Z	kg									
<b>ØD 70 ØAL 60 ØS 40</b>														<b>ØD 73 ØAL 63 ØS 40</b>												
HMB3400200	200	450	8,35	3/8"	25	64	20	45	55	23	45	CSTS025C00	CSTS025N00	HMB063400200	200	450	8,52									
HMB3400250	250	500	9,19											HMB063400250	250	500	9,53									
HMB3400300	300	550	10,11											HMB063400300	300	550	10,36									
HMB3400350	350	600	10,99											HMB063400350	350	600	11,27									
HMB3400400	400	650	11,86											HMB063400400	400	650	12,16									
HMB3400450	450	700	12,78											HMB063400450	450	700	13,07									
HMB3400500	500	750	13,67											HMB063400500	500	750	13,98									
HMB3400550	550	800	14,56											HMB063400550	550	800	14,89									
HMB3400600	600	850	15,45											HMB063400600	600	850	15,80									
HMB3400700	700	950	17,24											HMB063400700	700	950	17,64									
HMB3400800	800	1050	19,02	HMB063400800	800	1050	19,46																			
HMB3401000	1000	1250	22,58	HMB063401000	1000	1250	23,08																			
<b>ØD 80 ØAL 70 ØS 35</b>														<b>ØD 80 ØAL 70 ØS 40</b>												
HMB4350100	100	350	7,12	3/8"	25	64	20	45	55	23	45	CSTS025C00	CSTS025N00	HMB4400100	100	350	7,48									
HMB4350150	150	400	7,93											HMB4400150	150	400	8,44									
HMB4350200	200	450	8,79											HMB4400200	200	450	9,40									
HMB4350250	250	500	9,61											HMB4400250	250	500	10,35									
HMB4350300	300	550	10,47											HMB4400300	300	550	11,31									
HMB4350350	350	600	11,30											HMB4400350	350	600	12,24									
HMB4350400	400	650	12,14											HMB4400400	400	650	13,19									
HMB4350450	450	700	12,98											HMB4400450	450	700	14,16									
HMB4350500	500	750	13,79											HMB4400500	500	750	15,11									
HMB4350550	550	800	14,63											HMB4400550	550	800	16,05									
HMB4350600	600	850	15,49	HMB4400600	600	850	17,00																			
HMB4350700	700	950	17,15	HMB4400700	700	950	18,92																			
HMB4350800	800	1050	18,81	HMB4400800	800	1050	20,81																			
HMB4351000	1000	1250	22,17	HMB4401000	1000	1250	24,62																			
<b>ØD 92 ØAL 80 ØS 40</b>														<b>ØD 92 ØAL 80 ØS 50</b>												
HMB5400200	200	482	12,81	1/2"	30	73	22	51	65	28	51	CSTS030C00	CSTS030N00	HMB5500200	200	482	13,98									
HMB5400250	250	532	13,93											HMB5500250	250	532	15,47									
HMB5400300	300	582	15,05											HMB5500300	300	582	16,87									
HMB5400400	400	682	17,24											HMB5500400	400	682	19,59									
HMB5400500	500	782	19,55											HMB5500500	500	782	22,43									
HMB5400600	600	882	21,80											HMB5500600	600	882	25,29									
HMB5400700	700	982	24,05											HMB5500700	700	982	28,10									
HMB5400800	800	1082	26,30											HMB5500800	800	1082	30,90									
HMB5401000	1000	1282	30,80											HMB5501000	1000	1282	36,47									
<b>ØD 105 ØAL 90 ØS 50</b>																										
HMB090500300	300	624	23,14	1/2"	40	92	28	69	100	35	69	CSTS040C00	CSTS040N00													
HMB090500400	400	724	26,47																							
HMB090500500	500	824	29,80																							
HMB090500600	600	924	33,14																							
HMB090500700	700	1024	36,47																							
HMB090500800	800	1124	39,80																							
HMB090501000	1000	1324	46,52																							

MATERIALE TUBO: ACCIAIO S1 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL S1 52.3 DIN 2393 ISO H9

MATERIALE ASTA: ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS

CARATTERISTICHE TECNICHE : VEDI PAGINA 38 - TECHNICAL SPECIFICATIONS : SEE PAGE 38



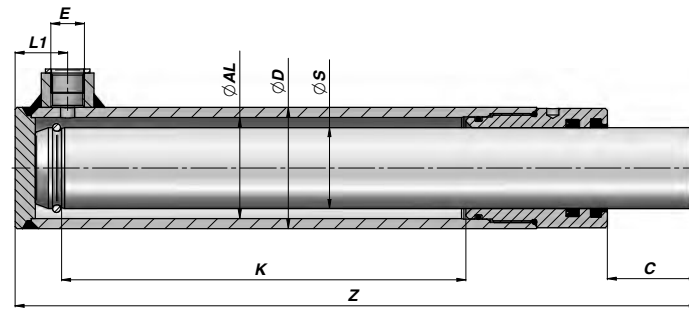
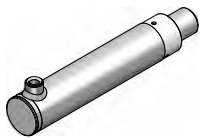
Codice Code	K	Z	kg	E BSP	ØP	H	V	M	H1	V1	M1	Code A	Code B	Codice Code	K	Z	kg
<b>ØD 42 ØAL 32 ØS 20</b>																	
HMC032200050	50	195	1,45														
HMC032200100	100	245	1,80														
HMC032200150	150	295	2,15														
HMC032200200	200	345	2,50														
HMC032200250	250	395	2,85														
HMC032200300	300	445	3,20														
HMC032200400	400	545	3,90														
HMC032200500	500	645	4,60														
<b>ØD 50 ØAL 40 ØS 20</b>														<b>ØD 50 ØAL 40 ØS 25</b>			
HMC1200100	100	280	2,63											HMC1250100	100	280	2,80
HMC1200150	150	330	3,03											HMC1250150	150	330	3,23
HMC1200200	200	380	3,43											HMC1250200	200	380	3,74
HMC1200250	250	430	3,83											HMC1250250	250	430	4,21
HMC1200300	300	480	4,23											HMC1250300	300	480	4,68
HMC1200350	350	530	4,63											HMC1250350	350	530	5,15
HMC1200400	400	580	5,03											HMC1250400	400	580	5,62
HMC1200450	450	630	5,43											HMC1250450	450	630	6,09
HMC1200500	500	680	5,83											HMC1250500	500	680	6,55
														HMC1250550	550	730	7,02
														HMC1250600	600	780	7,49
<b>ØD 60 ØAL 50 ØS 25</b>														<b>ØD 60 ØAL 50 ØS 30</b>			
HMC2250100	100	309	4,24											HMC2300100	100	309	4,44
HMC2250150	150	359	4,27											HMC2300150	150	359	5,06
HMC2250200	200	409	5,30											HMC2300200	200	409	5,67
HMC2250250	250	459	5,82											HMC2300250	250	459	6,29
HMC2250300	300	509	6,36											HMC2300300	300	509	6,90
HMC2250350	350	559	6,88											HMC2300350	350	559	7,52
HMC2250400	400	609	7,41											HMC2300400	400	609	8,13
HMC2250450	450	659	7,94											HMC2300450	450	659	8,74
HMC2250500	500	709	8,47											HMC2300500	500	709	9,36
HMC2250550	550	759	9,00											HMC2300550	550	759	9,98
HMC2250600	600	809	9,53											HMC2300600	600	809	10,59
HMC2250700 <b>NEW!</b>	700	909	10,65											HMC2300700	700	909	11,82
HMC2250800	800	1009	11,65											HMC2300800	800	1009	13,05
HMC2251000	1000	1209	13,77											HMC2301000	1000	1209	15,50
<b>ØD 70 ØAL 60 ØS 30</b>														<b>ØD 70 ØAL 60 ØS 35</b>			
HMC3300100	100	329	5,83											HMC3350100	100	329	6,08
HMC3300150	150	379	6,50											HMC3350150	150	379	6,86
HMC3300200	200	429	7,18											HMC3350200	200	429	7,64
HMC3300250	250	479	7,86											HMC3350250	250	479	8,40
HMC3300300	300	529	8,53											HMC3350300	300	529	9,19
HMC3300350	350	579	9,21											HMC3350350	350	579	9,96
HMC3300400	400	629	9,88											HMC3350400	400	629	10,74
HMC3300450	450	679	10,56											HMC3350450	450	679	11,52
HMC3300500	500	729	11,23											HMC3350500	500	729	12,29
HMC3300550	550	779	11,91											HMC3350550	550	779	13,07
HMC3300600	600	829	12,58											HMC3350600	600	829	13,84
HMC3300700 <b>NEW!</b>	700	929	14,04											HMC3350700 <b>NEW!</b>	700	929	15,48
HMC3300800	800	1029	15,29											HMC3350800	800	1029	16,95
HMC3301000	1000	1229	17,99											HMC3351000	1000	1229	20,05



HTO

CILINDRO TUFFANTE STANDARD  
STANDARD PLUNGER CYLINDER

Series M250



Codice Code	K	Z	kg	E BSP	L1	C
<b>ØD 50    ØAL 40    ØS 30</b>						
HT02300200	200	326	3,67	3/8"	23	40
HT02300250	250	376	4,22			
HT02300300	300	426	4,78			
HT02300350	350	476	5,33			
HT02300400	400	526	5,89			
HT02300500	500	626	7,00			
<b>ØD 60    ØAL 50    ØS 40</b>						
HT03400200	200	338	5,67	3/8"	26	45
HT03400300	300	438	7,34			
HT03400400	400	538	9,00			
HT03400500	500	638	10,67			
HT03400600	600	738	12,35			
<b>ØD 70    ØAL 60    ØS 50</b>						
HT04500300	300	450	10,60	3/8"	30	50
HT04500400	400	550	12,94			
HT04500500	500	650	15,28			
HT04500600	600	750	17,62			

MATERIALE TUBO: ACCIAIO St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

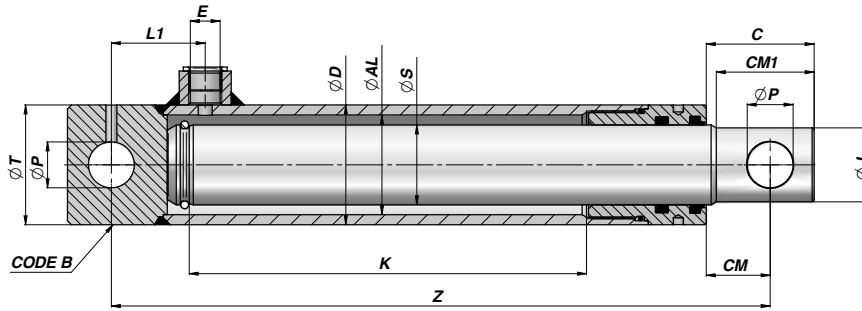
MATERIALE ASTA: ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 - 1999/ISO 9227-NSS

CARATTERISTICHE TECNICHE : VEDI PAGINA 40 - TECHNICAL SPECIFICATIONS : SEE PAGE 40

CILINDRO TUFFANTE TIPO "HFRT"  
PLUNGER CYLINDER "HFRT" TYPE

HFRT

Series M250



Codice Code	K	Z	kg	E BSP	L1	ØP	CM	C	ØJ	CM1	ØT	Code B
<b>ØD 40 ØAL 30 ØS 25</b>												
HFRT125100	100	190	1,64	3/8"	40	14,10	24	38	22	35	40	CFHR030014030
HFRT125150	150	240	2,05									
HFRT125200	200	290	2,46									
HFRT125250	250	340	2,87									
HFRT125300	300	390	3,28									
<b>ØD 50 ØAL 40 ØS 30</b>												
HFRT230200	200	300	3,64	3/8"	42	16,20	26	42	27	37	50	CFO4005016
HFRT230250	250	350	4,19									
HFRT230300	300	400	4,74									
HFRT230350	350	450	5,30									
HFRT230400	400	500	5,85									
HFRT230550	550	650	7,52									
HFRT230700 <b>NEW!</b>	700	800	9,18									
<b>ØD 60 ØAL 50 ØS 40</b>												
HFRT340200	200	330	6,08	3/8"	47	23,10	32	54	37	49	60	CFHR050023050
HFRT340250	250	380	6,91									
HFRT340300	300	430	7,75									
HFRT340350	350	480	8,58									
HFRT340400	400	530	9,41									
HFRT340550	550	680	11,90									
HFRT340700	700	830	14,40									
<b>ØD 60 ØAL 50 ØS 45</b>												
HFRT345200 <b>NEW!</b>	200	330	6,73	3/8"	47	23,10	34	56	42	49	60	CFHR05023050
HFRT345250 <b>NEW!</b>	250	380	7,69									
HFRT345300 <b>NEW!</b>	300	430	8,66									
HFRT345350 <b>NEW!</b>	350	480	9,62									
HFRT345400 <b>NEW!</b>	400	530	10,58									
<b>ØD 70 ØAL 60 ØS 50</b>												
HFRT450300	300	460	11,40	3/8"	50	25,50	49	74	47	65	65	CFHRT07060
HFRT450400	400	560	13,74									
HFRT450550	550	710	17,25									
HFRT450700	700	860	20,77									
<b>ØD 80 ØAL 70 ØS 60</b>												
HFRT560200 <b>NEW!</b>	200	360	12,26	3/8"	50	25,25	36	61	57	57	75	CFHRT08070
HFRT560300 <b>NEW!</b>	300	460	15,40									
HFRT560400 <b>NEW!</b>	400	560	18,53									
HFRT560550 <b>NEW!</b>	550	710	23,24									
HFRT560700 <b>NEW!</b>	700	860	27,95									
<b>ØD 92 ØAL 80 ØS 70</b>												
HFRT570300 <b>NEW!</b>	300	509	22,66	3/8"	55	30,25	66	96	67	90	85	CFHRT09080
HFRT570400 <b>NEW!</b>	400	609	26,94									
HFRT570500 <b>NEW!</b>	500	709	31,23									

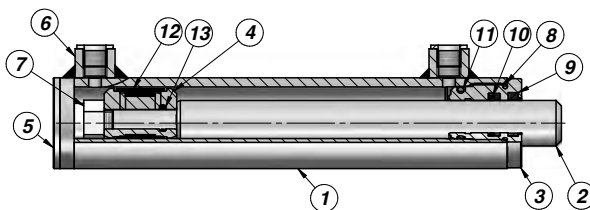
MATERIALE TUBO: ACCIAIO St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

MATERIALE ASTA: ACCIAIO UNI C45 SAE 1045 CROMO 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 µm ±5 Rating 9 / 200h ISO 10289 – 1999/ISO 9227-NSS

CARATTERISTICHE TECNICHE : VEDI PAGINA 40 - TECHNICAL SPECIFICATIONS : SEE PAGE 40

## CARATTERISTICHE TECNICHE TECHNICAL SPECIFICATIONS

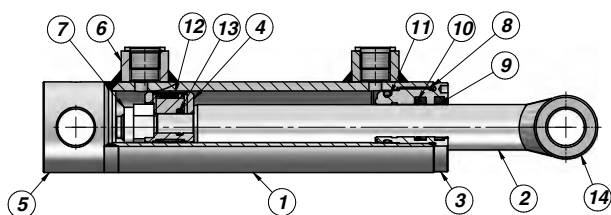
### TYPE "HMO" - "HMOLM"



"HMO" Pressione Massima - Max. Pressure: 250 Bar (\*\*)

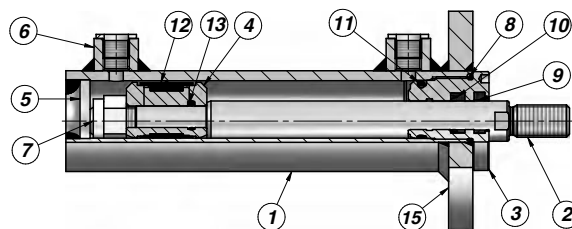
"HMOLM" Pressione Massima - Max. Pressure: 180 Bar

### TYPE "HFR2S"



"HFR2S" Pressione Massima - Max. Pressure: 250 Bar (\*\*)

### TYPE "HMF"



"HMF" Pressione Massima - Max. Pressure: 250 Bar (\*\*)

PRODOTTO - PRODUCT	MATERIALE - MATERIAL
1 TUBO LUCIDO POLISHED TUBE	ACCIAIO: St 52.3 DIN 2393 ISO H9 STEEL: St 52.3 DIN 2393 ISO H9
2 STELO CROMATO CHROMED ROD	ACCIAIO: UNI C45 - SAE 1045 - CROMO 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS STEEL: UNI C45 - SAE 1045 - CHROME 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS
3 TESTATA DI GUIDA HEAD BUSH	GHISA: EN-GJL 250 ( G25-UNI 5007 / EN 1561 ) HYDRAULIC CAST IRON: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )
4 PISTONE PISTON	ACCIAIO: 9SMn28 STEEL: 9SMn28
5 FONDELLO END PLUG	ACCIAIO: S355J0 (Fe510C) - S355JR (A105) STEEL: S355J0 (Fe510C) - S355JR (A105)
6 BORCHIA FILETTATA THREADED PORT	ACCIAIO STEEL
7 DADO AUTOBLOCCANTE LOCKNUT	ACCIAIO: UNI 7473 - 7474 STEEL: UNI 7473 - 7474
8 GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
9 GUARNIZIONE: GHK SEAL: GHK	POLIURETANO POLYURETHANE
10 GUARNIZIONE: TSE-TTS-TT/L SEAL: TSE-TTS-TT/L	TSE: NBR+TESSUTO TTS-TT/L: POLIURETANO TSE: NBR+FABRIC TTS-TT/L: POLYURETHANE
11 GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
12 GUARNIZIONE: TPM SEAL: TPM	NBR+POM+TPE NBR+POM+TPE
13 GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
14 BOCCOLA BUSH	ACCIAIO: S355J0 (Fe510C) STEEL: S355J0 (Fe510C)
15 FLANGIA FLANGE	ACCIAIO: S355J0 (Fe510C) STEEL: S355J0 (Fe510C)

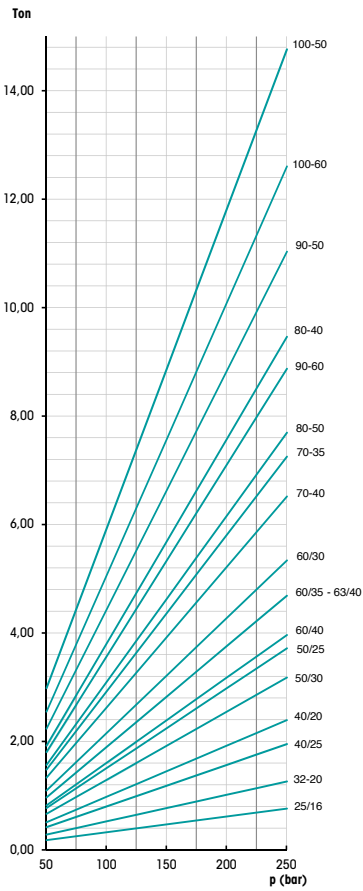
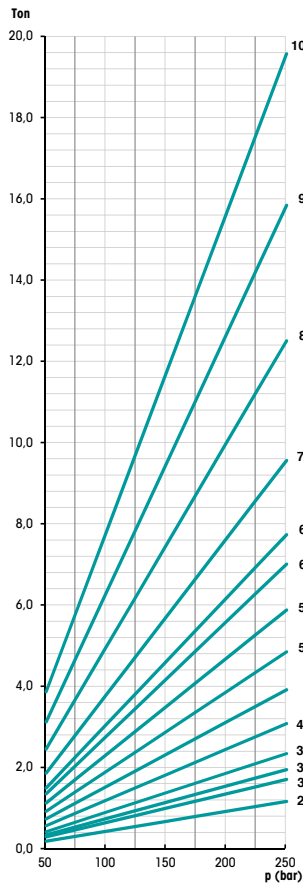
Velocità Limite - Top Speed: max 0,5 m/s Temperatura C° - Temperature C°: -25°C - +80°C

(\*\*) Il dato della pressione è sempre da verificare in base all'applicazione del cilindro.

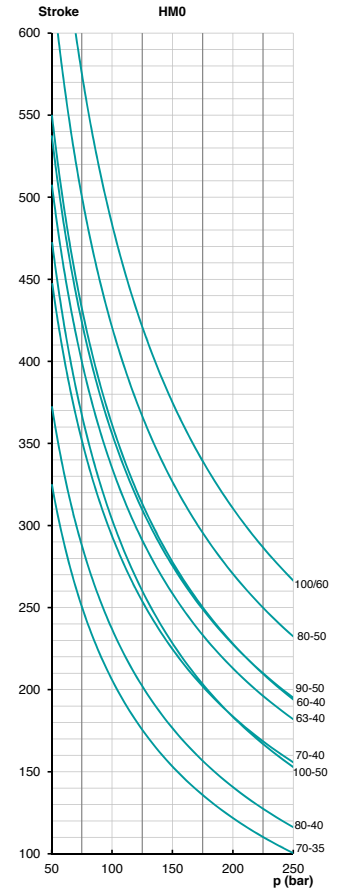
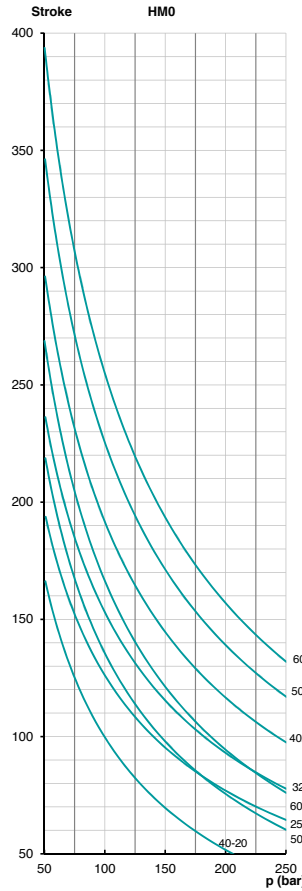
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

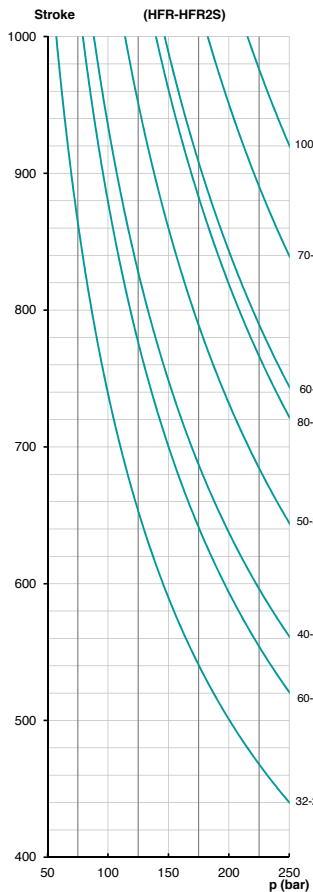
FORZA IN SPINTA - OUTPUT FORCE    FORZA IN TIRO - INPUT FORCE



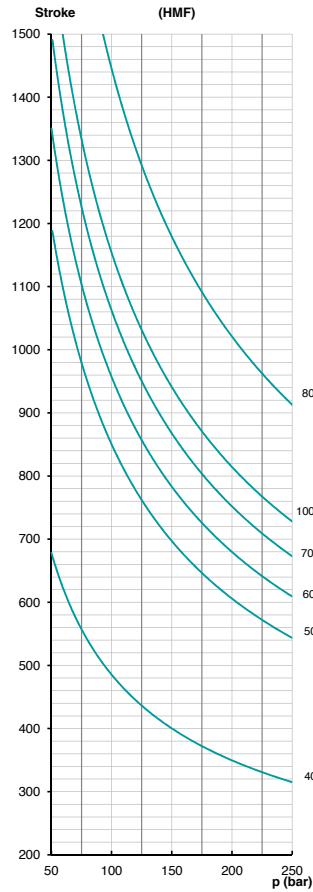
PRESSOFLESSIONE - BUCKLING ( HMO )



PRESSOFLESSIONE - BUCKLING ( HFR-HFR2S )



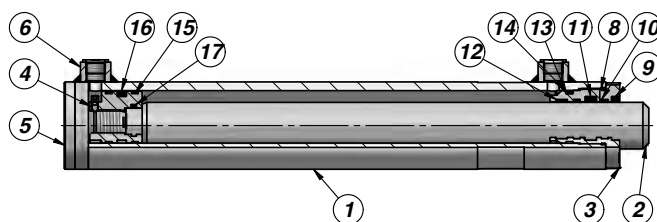
PRESSOFLESSIONE - BUCKLING ( HMF )





## CARATTERISTICHE TECNICHE TECHNICAL SPECIFICATIONS

### TYPE "HMOPM"



Pressione Massima - Max. Pressure: 350 Bar (\*\*)

PRODOTTO - PRODUCT		MATERIALE - MATERIAL
1	TUBO LEVIGATO HONED TUBE	ACCIAIO: St 52.3 DIN 2391 ISO H8 STEEL: St 52.3 DIN 2391 ISO H8
2	STELO CROMATO CHROMED ROD	ACCIAIO: 20MnV6 - CROMO 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS STEEL: 20MnV6 - CHROME 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS
3	TESTATA DI GUIDA HEAD BUSH	ACCIAIO: C40 STEEL: C40
4	PISTONE PISTON	ACCIAIO: C40 STEEL: C40
5	FONDELLO END PLUG	ACCIAIO: S355J0 (Fe510C) - S355JR (A105) STEEL: S355J0 (Fe510C) - S355JR (A105)
6	BORCHIA FILETTATA THREADED PORT	ACCIAIO STEEL
8	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
9	GUARNIZIONE: GHM/C SEAL: GHM/C	NBR + METALLO NBR + METAL
10	GUARNIZIONE: TTX/S SEAL: TTX/S	POLIURETANO + POM POLYURETHANE + POM
11	GUARNIZIONE: GIR SEAL: GIR	PTFE + NBR PTFE + NBR
12	GUARNIZIONE: GAF SEAL: GAF	TESSUTO + RESINA FENOLICA FABRIC + PHENOLIC RESIN
13	GUARNIZIONE: GKS SEAL: GKS	TPE TPE
14	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
15	GUARNIZIONE: PDH SEAL: PDH	NBR + PTFE + POM NBR + PTFE + POM
16	GUARNIZIONE: GAF SEAL: GAF	TESSUTO + RESINA FENOLICA FABRIC + PHENOLIC RESIN
17	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE

Velocità Limite - Top Speed: max 1 m/s

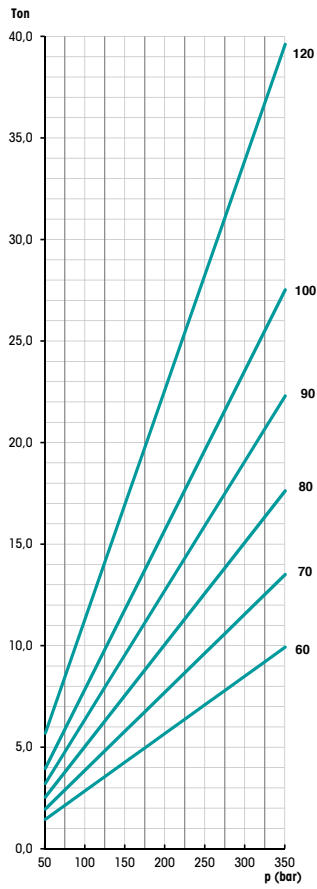
Temperatura C° - Temperature C°: -25°C - +80°C

(\*\*) Il dato della pressione è sempre da verificare in base all'applicazione del cilindro.

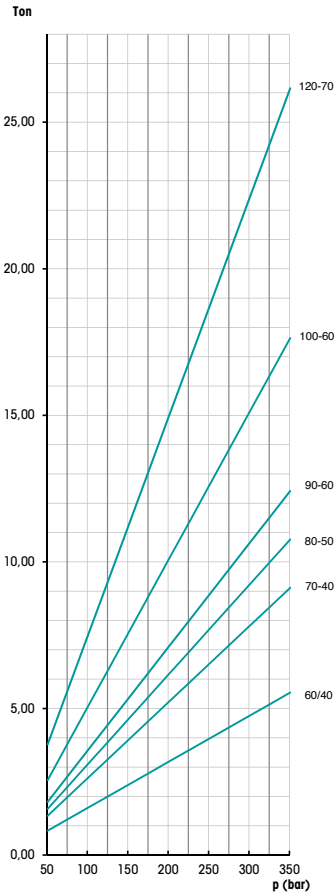
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

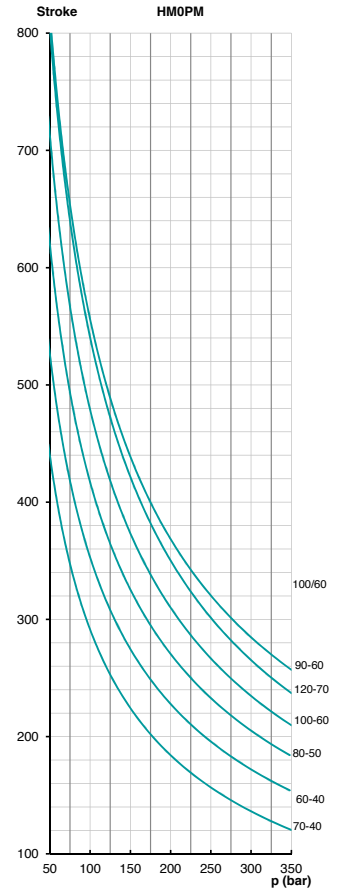
FORZA IN SPINTA - OUTPUT FORCE



FORZA IN TIRO - INPUT FORCE

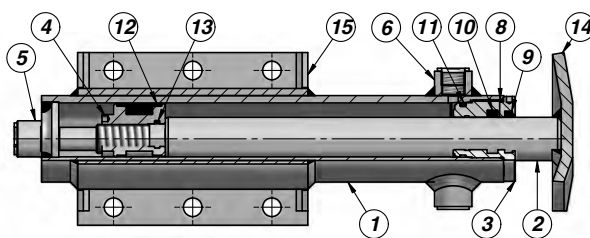


PRESSOFLESSIONE - BUCKLING



CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

TYPE "HMS"



Pressione Massima - Max. Pressure: 250 Bar (\*\*)

PRODOTTO - PRODUCT		MATERIALE - MATERIAL
1	TUBO LUCIDO POLISHED TUBE	ACCIAIO: St 52.3 DIN 2393 ISO H9 STEEL: St 52.3 DIN 2393 ISO H9
2	STELO CROMATO CHROMED ROD	ACCIAIO: UNI C45 - SAE 1045 - CROMO 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS STEEL: UNI C45 - SAE 1045 - CHROME 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS
3	TESTATA DI GUIDA HEAD BUSH	GHISA: EN-GJL 250 ( G25-UNI 5007 / EN 1561 ) HYDRAULIC CAST IRON: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )
4	PISTONE PISTON	ACCIAIO: 9SMn28 - C40 STEEL: 9SMn28 - C40
5	FONDELLO END PLUG	ACCIAIO: S355J0 (Fe510C) - S355JR (A105) STEEL: S355J0 (Fe510C) - S355JR (A105)
6	BORCHIA FILETTATA THREADED PORT	ACCIAIO STEEL
8	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
9	GUARNIZIONE: GHK SEAL: GHK	POLIURETANO POLYURETHANE
10	GUARNIZIONE: TSE-TTS-TT/L SEAL: TSE-TTS-TT/L	TSE : NBR+TESSUTO TSE : NBR+FABRIC
11	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
12	GUARNIZIONE: TPM SEAL: TPM	NBR+POM+TPE NBR+POM+TPE
13	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE
14	FLANGIA FLANGE	ACCIAIO: S355J0 (Fe510C) STEEL: S355J0 (Fe510C)
15	PIASTRA PLATE	ACCIAIO: S355J0 (Fe510C) STEEL: S355J0 (Fe510C)

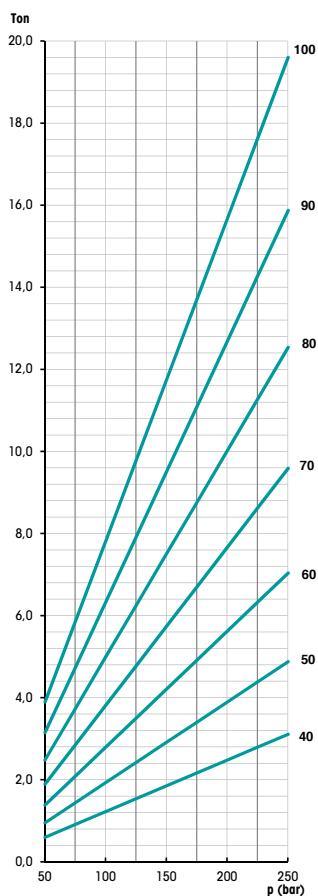
Velocità Limite - Top Speed: max 0,5 m/s      Temperatura C° - Temperature C°: -25°C - +80°C

(\*\*) Il dato della pressione è sempre da verificare in base all'applicazione del cilindro.

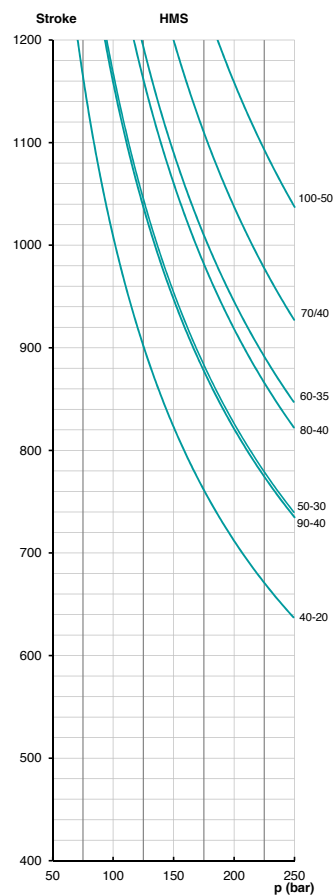
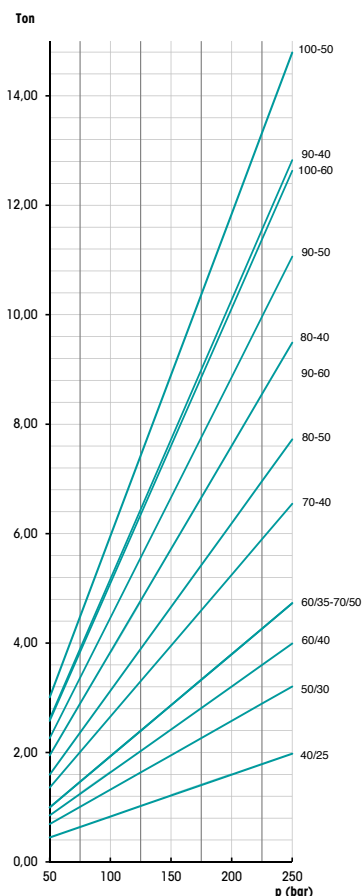
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

FORZA IN SPINTA - OUTPUT FORCE

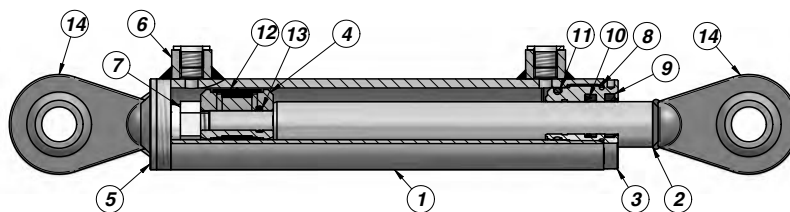


FORZA IN TIRO - INPUT FORCE



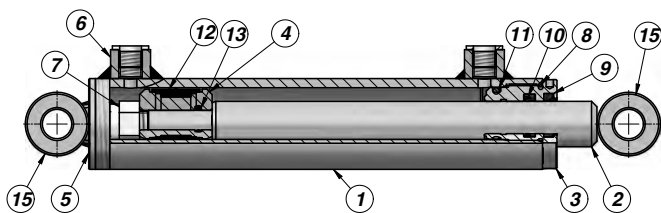
## CARATTERISTICHE TECNICHE TECHNICAL SPECIFICATIONS

### TYPE "HM1"



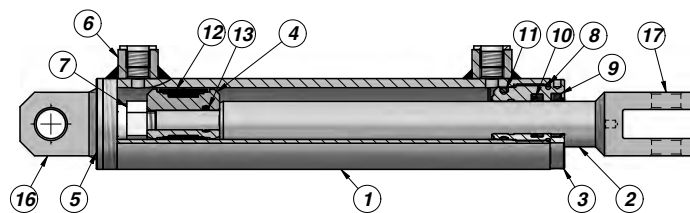
Pressione Massima - Max. Pressure: 250 Bar (\*\*)

### TYPE "HM2"



Pressione Massima - Max. Pressure: 250 Bar (\*\*)

### TYPE "HM5"



Pressione Massima - Max. Pressure: 250 Bar (\*\*)

PRODOTTO - PRODUCT		MATERIALE - MATERIAL	
1	TUBO LUCIDO POLISHED TUBE	ACCIAIO: St 52.3 DIN 2393 ISO H9 STEEL: St 52.3 DIN 2393 ISO H9	
2	STELO CROMATO CHROMED ROD	ACCIAIO: UNI C45 - SAE 1045 - CROMO 25 µm ±5 Rating 9/200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS STEEL: UNI C45 - SAE 1045 - CHROME 25 µm ±5 Rating 9/200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS	
3	TESTATA DI GUIDA HEAD BUSH	GHISA: EN-GJL 250 ( G25-UNI 5007 / EN 1561 ) HYDRAULIC CAST IRON: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )	
4	PISTONE PISTON	ACCIAIO: 9SMn28 STEEL: 9SMn28	
5	FONDELLO END PLUG	ACCIAIO: S355J0 (Fe510C) - S355JR (A105) STEEL: S355J0 (Fe510C) - S355JR (A105)	
6	BORCHIA FILETTATA THREADED PORT	ACCIAIO STEEL	
7	DADO AUTOBLOCCANTE LOCKNUT	ACCIAIO: UNI 7473 - 7474 STEEL: UNI 7473 - 7474	
8	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE	
9	GUARNIZIONE: GHK SEAL: GHK	POLIURETANO POLYURETHANE	
10	GUARNIZIONE: TSE-TTS-TT/L SEAL: TSE-TTS-TT/L	TSE: NBR+TESSUTO TTS-TT/L: POLIURETANO TSE: NBR+FABRIC TTS-TT/L: POLYURETHANE	
11	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE	
12	GUARNIZIONE: TPM SEAL: TPM	NBR+POM+TPE NBR+POM+TPE	
13	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE	
14	SNODO AGRICOLA AGRICULTURE BALL JOINT END	ACCIAIO: C40 - UNI EN 10083-1 STEEL: C40 - UNI EN 10083-1	
15	BOCCOLA BUSH	TIPO : "CB" ACCIAIO: S355J0 (Fe510C) TYPE : "CB" STEEL: S355J0 (Fe510C)	
16	OCCHIO FISSO MALE CLEVIS	TIPO : "COF" ACCIAIO: S235JR (Fe360/Fe360B) TYPE : "COF" STEEL: S235JR (Fe360/Fe360B)	
17	FORCELLA FORK	TIPO : "CFS" ACCIAIO: S235JR (Fe360/Fe360B) TYPE : "CFS" STEEL: S235JR (Fe360/Fe360B)	

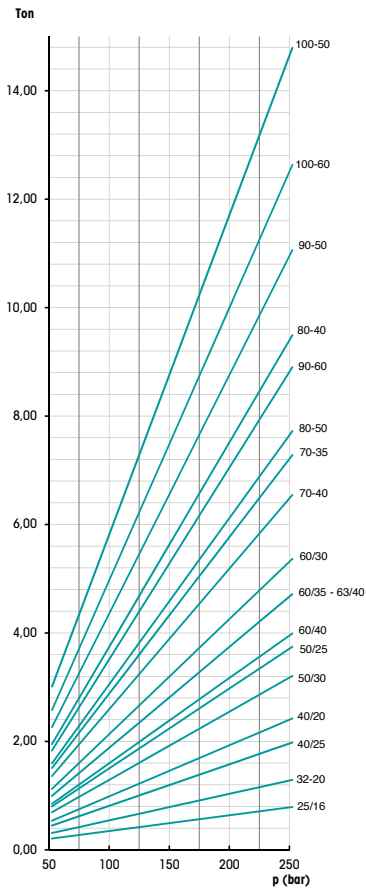
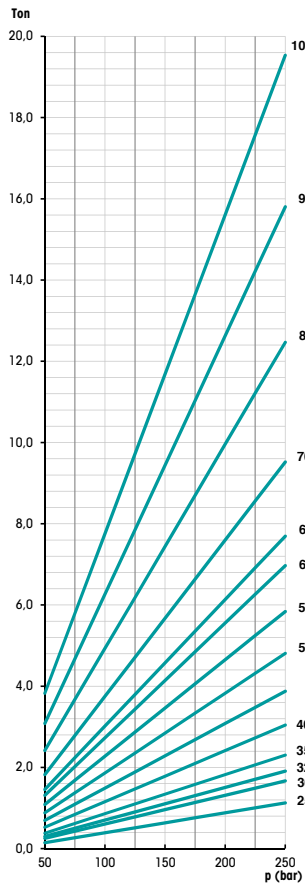
Velocità Limite - Top Speed: max 0,5 m/s Temperatura C° - Temperature C°: -25°C - +80°C

(\*\*) Il dato della pressione è sempre da verificare in base all'applicazione del cilindro.

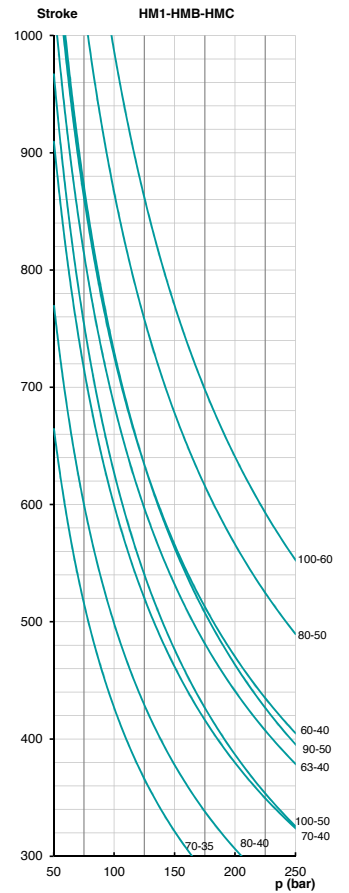
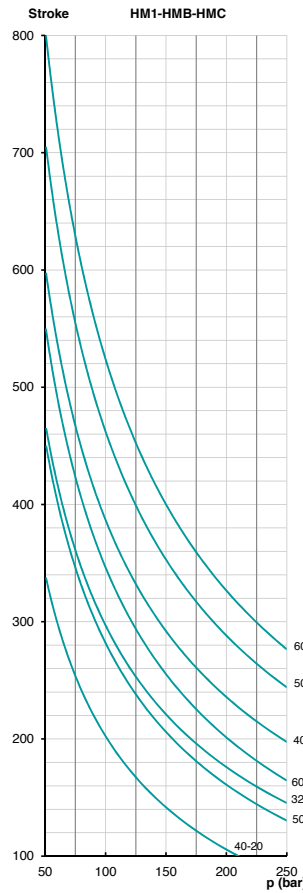
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

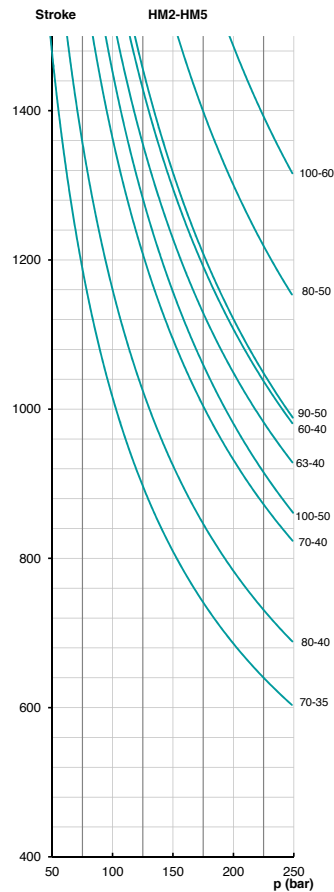
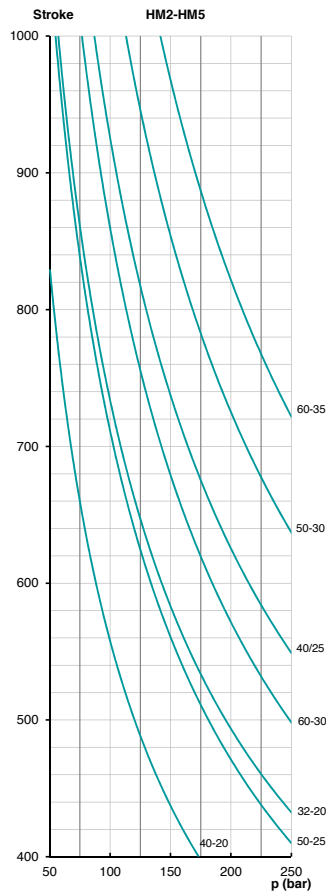
FORZA IN SPINTA - OUTPUT FORCE    FORZA IN TIRO - INPUT FORCE



PRESSOFLESSIONE - BUCKLING ( HM1 )

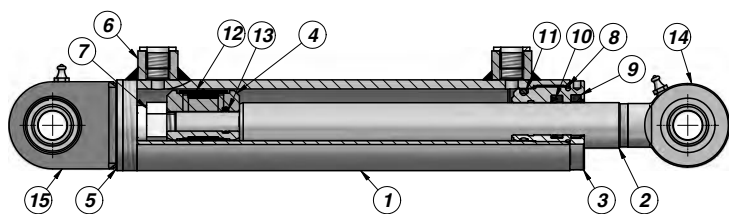


PRESSOFLESSIONE - BUCKLING ( HM2- HM5 )



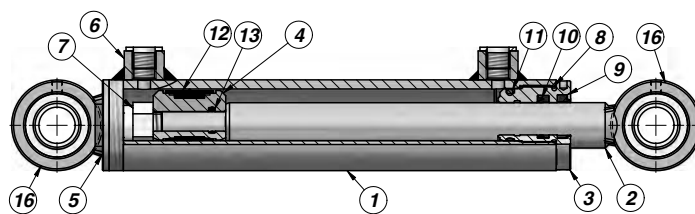
## CARATTERISTICHE TECNICHE TECHNICAL SPECIFICATIONS

### TYPE "HMB"



Pressione Massima - Max. Pressure: 250 Bar (\*\*)

### TYPE "HMC"



Pressione Massima - Max. Pressure: 250 Bar (\*\*)

PRODOTTO - PRODUCT		MATERIALE - MATERIAL	
1	TUBO LUCIDO POLISHED TUBE	ACCIAIO: St 52.3 DIN 2393 ISO H9 STEEL: St 52.3 DIN 2393 ISO H9	
2	STELO CROMATO CHROMED ROD	ACCIAIO: UNI C45 - SAE 1045 - CROMO 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS STEEL: UNI C45 - SAE 1045 - CHROME 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS	
3	TESTATA DI GUIDA HEAD BUSH	GHISA: EN-GJL 250 ( G25-UNI 5007 / EN 1561 ) HYDRAULIC CAST IRON: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )	
4	PISTONE PISTON	ACCIAIO: 9SMn28 STEEL: 9SMn28	
5	FONDELLO END PLUG	ACCIAIO: S355J0 (Fe510C) - S355JR (A105) STEEL: S355J0 (Fe510C) - S355JR (A105)	
6	BORCHIA FILETTATA THREADED PORT	ACCIAIO STEEL	
7	DADO AUTOBLOCCANTE LOCKNUT	ACCIAIO: UNI 7473 - 7474 STEEL: UNI 7473 - 7474	
8	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE	
9	GUARNIZIONE: GHK SEAL: GHK	POLIURETANO POLYURETHANE	
10	GUARNIZIONE: TSE-TTS-TT/L SEAL: TSE-TTS-TT/L	TSE: NBR+TESSUTO TTS-TT/L: POLIURETANO TSE: NBR+FABRIC TTS-TT/L: POLYURETHANE	
11	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE	
12	GUARNIZIONE: TPM SEAL: TPM	NBR+POM+TPE NBR+POM+TPE	
13	GUARNIZIONE: O-RING SEAL: O-RING	NBR 70 SHORE NBR 70 SHORE	
14	TERMINALE A SNODO RILUBRIFICABILE BALL-JOINT END WITH GREASE NIPPLE	TIPO : "CSTS...C" ACCIAIO: ISO 12240-4 SERIE E - TIPO S TYPE : "CSTS...C" STEEL: ISO 12240-4 SERIES E - TYPE S	
15	TERMINALE A SNODO RILUBRIFICABILE BALL-JOINT END WITH GREASE NIPPLE	TIPO : "CSTS...N" ACCIAIO: ISO 12240-1 SERIE E TYPE : "CSTS...N" STEEL: ISO 12240-1 SERIES E	
16	ANELLO A SILDARE CON SNODO "GE" MONTATO WELD-RING WITH "GE" BALL-JOINT	TIPO : "CAGEG" ACCIAIO: S355J0 (Fe510C) - S355JR (A105) TYPE : "CAGEG" STEEL: S355J0 (Fe510C) - S355JR (A105)	

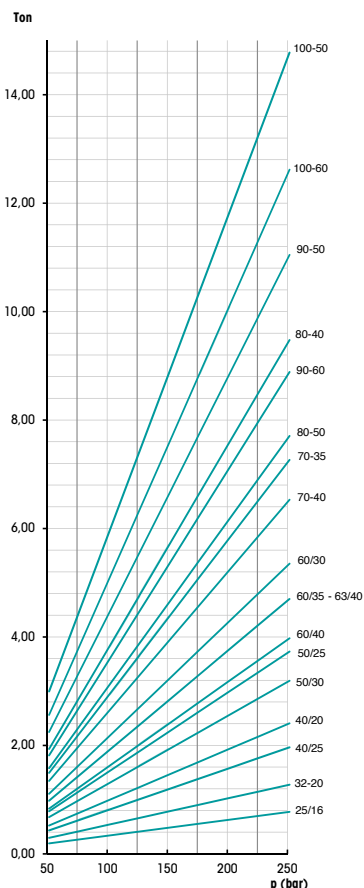
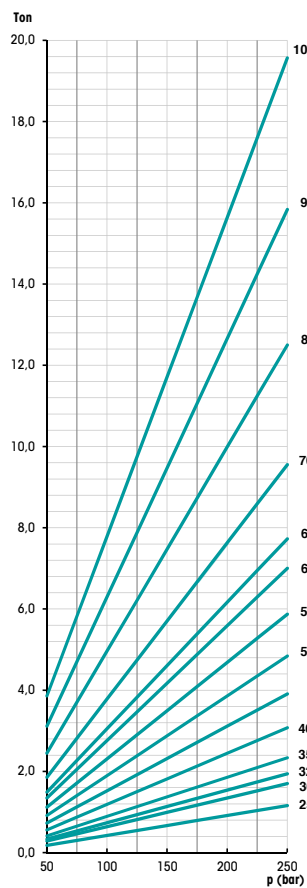
Velocità Limite - Top Speed: max 0,5 m/s Temperatura C° - Temperature C°: -25°C - +80°C

(\*\*) Il dato della pressione è sempre da verificare in base all'applicazione del cilindro.

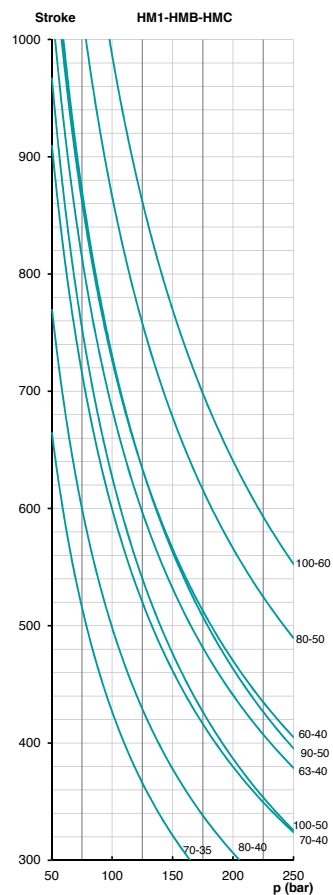
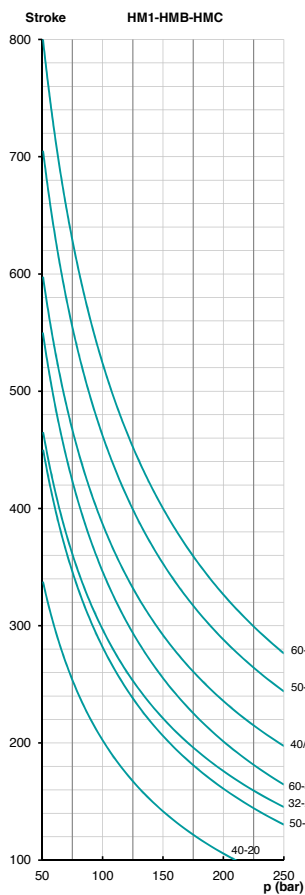
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

FORZA IN SPINTA - OUTPUT FORCE    FORZA IN TIRO - INPUT FORCE



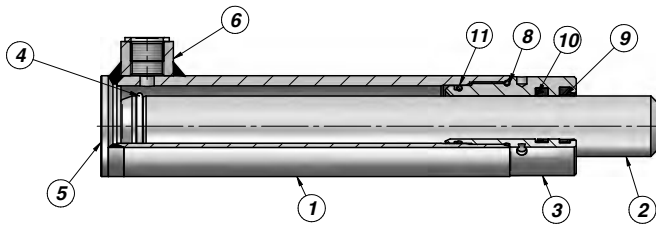
PRESSOFLESSIONE - BUCKLING ( HMB - HMC )





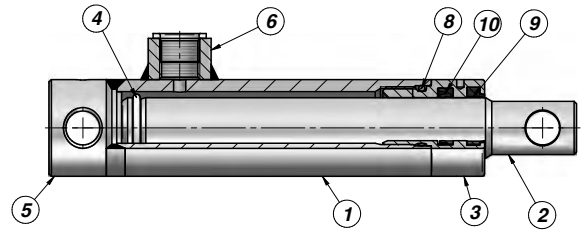
## CARATTERISTICHE TECNICHE TECHNICAL SPECIFICATIONS

### TYPE "HTO"



"HTO" Pressione Massima - Max. Pressure: 250 Bar (\*\*)

### TYPE "HFRT"



"HFRT" Pressione Massima - Max. Pressure: 250 Bar (\*\*)

PRODOTTO - PRODUCT			MATERIALE - MATERIAL	
1	TUBO LUCIDO POLISHED TUBE		ACCIAIO: S1 52.3 DIN 2393 ISO H9 STEEL: St 52.3 DIN 2393 ISO H9	
2	STELO CROMATO CHROMED ROD		ACCIAIO: UNIC45-SAE 1045 - CROMO 25µm±5 Rating 9/200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS STEEL: UNIC45-SAE 1045 - CHROME 25µm±5 Rating 9/200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS	
3	TESTATA DI GUIDA HEAD BUSH	TIPO : "HTO" TYPE: "HTO"	GHISA: EN-GJL 250 ( G25-UNI 5007 / EN 1561 ) HYDRAULIC CAST IRON: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )	
3	TESTATA DI GUIDA HEAD BUSH	TIPO : "HFRT" TYPE: "HFRT"	ACCIAIO: 9SMn28 CON TRATTAMENTO "NI-TEMPER" STEEL: 9SMn28 WITH "NI-TEMPER" TREATMENT	
4	ANELLO DI ARRESTO STOP RING		ACCIAIO: 9SMn28 STEEL: 9SMn28	
5	FONDELLO END PLUG		ACCIAIO: S355J0 (Fe510C) - S355JR (A105) STEEL: S355J0 (Fe510C) - S355JR (A105)	
6	BORCHIA FILETTATA THREADED PORT		ACCIAIO STEEL	
8	GUARNIZIONE: O-RING SEAL: O-RING	TIPO : "HTO" TYPE: "HTO"	NBR 70 SHORE NBR 70 SHORE	
8	GUARNIZIONE: O-RING SEAL: O-RING	TIPO : "HFRT" TYPE: "HFRT"	NBR 90 SHORE NBR 90 SHORE	
9	GUARNIZIONE: GHK SEAL: GHK		POLIURETANO POLYURETHANE	
10	GUARNIZIONE: TSE-TTS-TT/L SEAL: TSE-TTS-TT/L		TSE: NBR+TESSUTO TTS-TT/L: POLIURETANO TSE: NBR+FABRIC TTS-TT/L: POLYURETHANE	
11	GUARNIZIONE: O-RING SEAL: O-RING		NBR 70 SHORE NBR 70 SHORE	

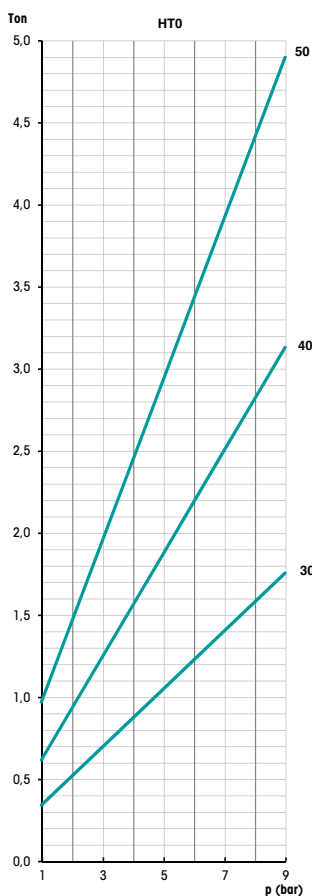
Velocità Limite - Top Speed: max 0,5 m/s      Temperatura C° - Temperature C°: -25°C - +80°C

(\*\*) Il dato della pressione è sempre da verificare in base all'applicazione del cilindro.

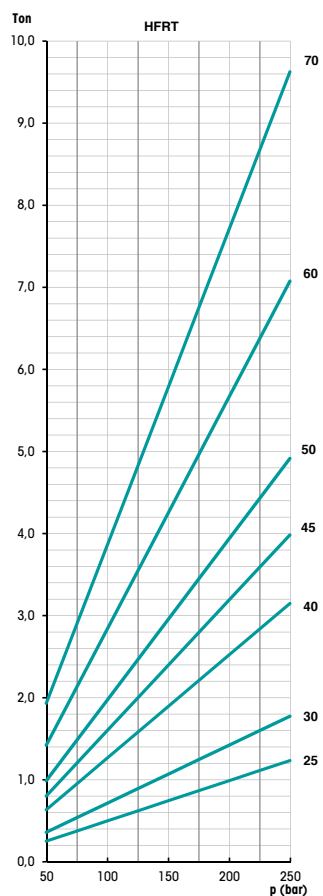
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARATTERISTICHE TECNICHE  
TECHNICAL SPECIFICATIONS

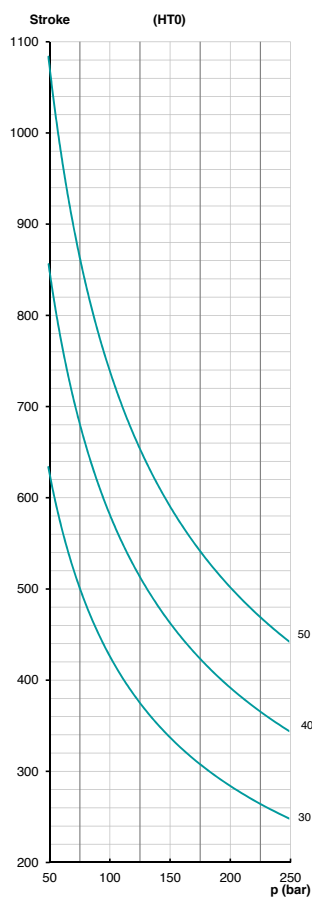
FORZA IN SPINTA - OUTPUT FORCE (HTO)



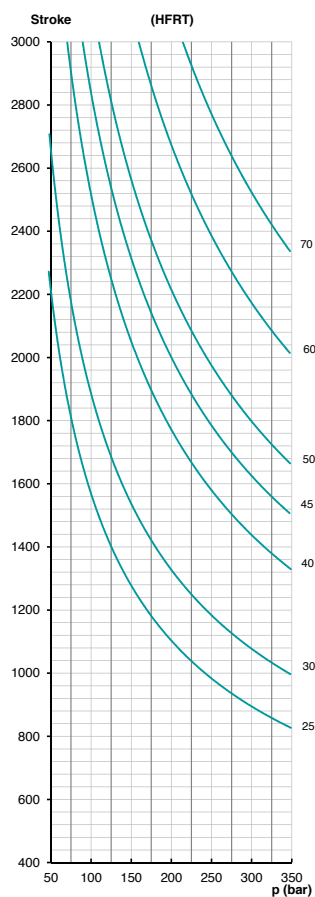
FORZA IN SPINTA - OUTPUT FORCE (HFRT)



PRESSOFLESSIONE - BUCKLING (HTO)

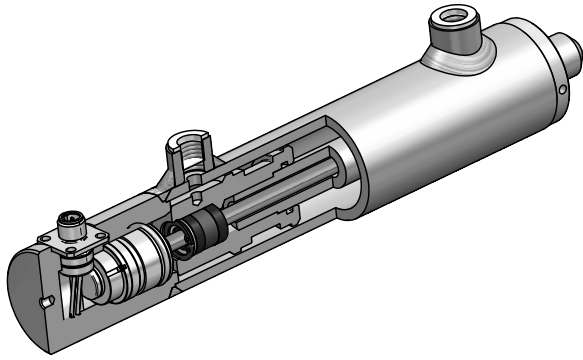


PRESSOFLESSIONE - BUCKLING (HFRT)





### CILINDRO CON SENSORE LINEARE Temposonics® PER VEICOLI MOBILI CYLINDER WITH LINEAR POSITION SENSOR Temposonics® FOR MOBILE MACHINES

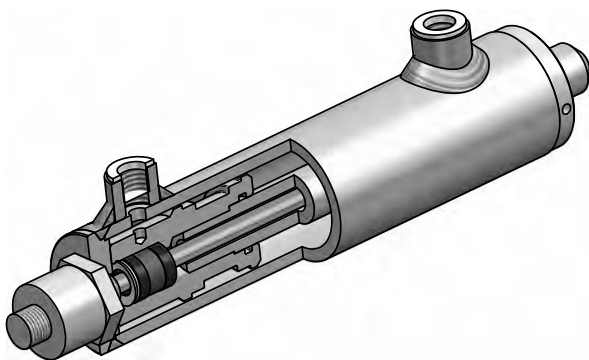


Il sensore con tecnologia magnetostrittiva (senza contatto), posizionato all'interno del cilindro, rileva in ogni momento la posizione esatta del pistone del cilindro, offrendo il vantaggio di operare dalla strumentazione di bordo. Applicazioni: macchine agricole, movimento terra, forestali, gru, piattaforme aeree, carrelli elevatori e compattatori per rifiuti.

*The linear position sensor with magnetostrictive technology (no contact), embedded into a hydraulic cylinder, measures the absolute position of linear displacements, offering the advantage of operating by the on-board instrumentation.*

*Applications: agricultural machinery, earthmoving machines, forestry cranes, aerial platforms, forklifts and garbage trucks.*

### CILINDRO CON SENSORE LINEARE Temposonics® PER APPLICAZIONI INDUSTRIALI CYLINDER WITH LINEAR POSITION SENSOR Temposonics® FOR INDUSTRIAL APPLICATIONS



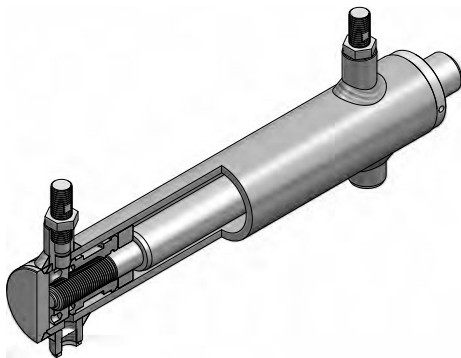
Il sensore con tecnologia magnetostrittiva (senza contatto), estremamente robusto ideale per il settore industriale, rileva in ogni momento la posizione esatta del pistone del cilindro garantendo alta qualità.

Applicazioni: paratie, macchine per l'imballaggio, impianti di riempimento bevande, macchine per la lavorazione della plastica e per la laminazione dell'acciaio.

*The linear position sensor with magnetostrictive technology (no contact), extremely sturdy, ideal for the industrial sector, detects in real time the exact position of the cylinder piston ensuring high quality.*

*Applications: bulkheads, packaging machines, beverage filling equipment, plastics processing equipment and steel lamination machines.*

### CILINDRO CON SENSORE INDUTTIVO (fine corsa) CYLINDER WITH INDUCTION SENSORS AT BOTH ENDS



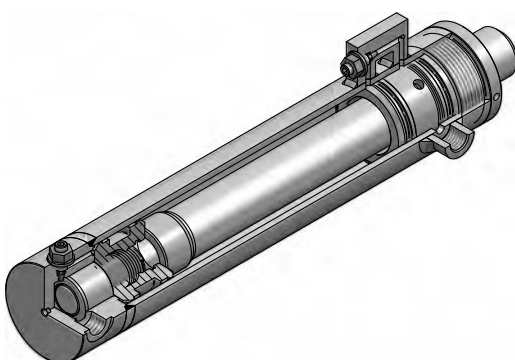
Il sensore induttivo di prossimità è posizionato all'esterno del cilindro e permette di rilevare il "fine corsa" del cilindro stesso.

Applicazioni: controlli del processo industriale, robot industriali, macchine utensili, strumenti di misura, linee di montaggio.

*The inductive proximity sensor is mounted externally to a hydraulic cylinder and is used for the end-of-stroke detection on the same hydraulic cylinders.*

*Applications: industrial process control, industrial robots, machine tools, measuring instruments, assembly lines.*

### CILINDRO CON AMMORTIZZATORI REGOLABILI CYLINDERS WITH ADJUSTABLE CUSHIONING



L'ammortizzatore interno regolabile riduce lo scarico nel tratto finale della corsa creando una camera in cui l'olio, potendosi scaricare solo lentamente, si comporta come un cuscino smorzante.

Applicazioni: dove sia necessario ridurre rumori e urti meccanici, in caso di applicazioni verticali con carichi pesanti.

*The internal adjustable cushion functions by closing off the inner exhaust orifice at the end of the stroke, trapping the oil and developing a backpressure against the advancing piston which slows, or cushions, the travel speed.*

*Applications: the use of a cushion is recommended for high speed, vertical and heavy load applications to reduce noise, vibration, and the destructive hammering effect of the piston assembly bottoming against the cylinder end cap.*

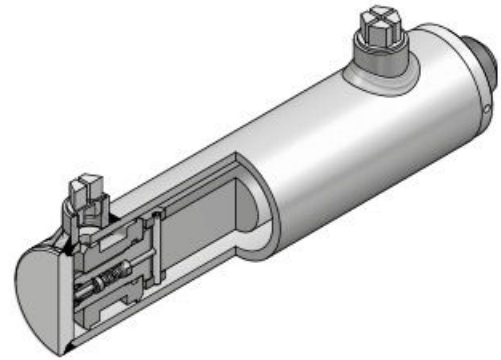
**CILINDRO CON BY-PASS  
CYLINDER WITH BY-PASS**

Quando il cilindro arriva a fine corsa un by-pass mette in comunicazione le due camere facendo confluire l'olio ad un altro cilindro.

Applicazioni: ogni qualvolta si vogliono avere più cilindri che lavorano in maniera sequenziale.

When the cylinder arrives at the full retracted position, a mechanical by-pass inside the piston connects the chambers, allowing the oil flow into another cylinder.

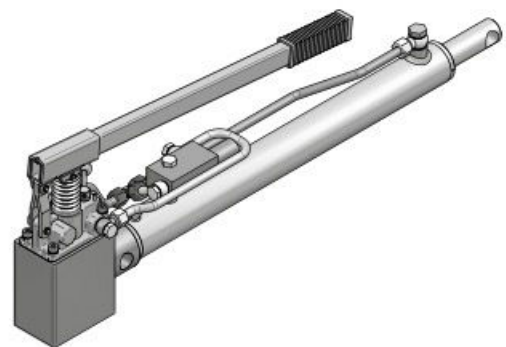
Applications: any time two or more cylinders work sequentially.


**CILINDRO CON POMPA A MANO  
CYLINDER WITH HAND PUMP**

Cilindro con pompa a mano incorporata utilizzabile per operazioni di spinta e sollevamento.

Applicazioni: piccole gruette di sollevamento.

Cylinder with build-in handpump used for pushing and lifting.  
Applications: small lifting cranes


**CILINDRO CON VALVOLE INTEGRATE  
CYLINDER WITH BUILT-IN VALVES**

Nel fondello del cilindro vengono ricavate le sedi per valvole a cartuccia di blocco oppure overcenter in modo da dare maggior sicurezza all'impianto.

Applicazioni: macchine movimento terra.

In the cylinder end plug we have inserted the seats for the check or the overcenter cartridge valves, so that to make the plant safer.

Applications: earth-moving machines.

