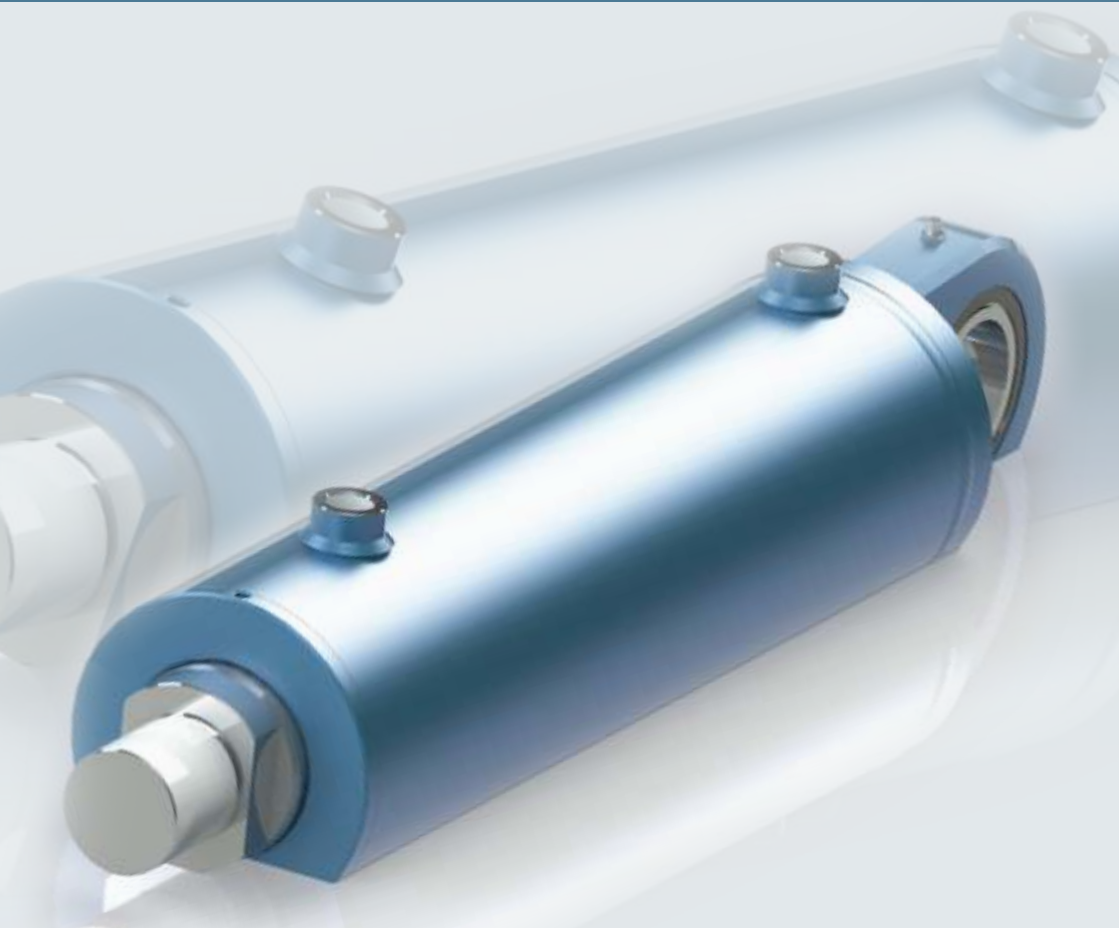


# HYDRO SYSTEM<sup>®</sup>

HYDRAULIC DEVICES



15 Yambolen Str. 8600 Yambol, Bulgaria  
ph. +359 46 661652 Fax +359 46 661653  
E-mail: [office@hydrosystem.bg](mailto:office@hydrosystem.bg)  
[www.hydrosystem.bg](http://www.hydrosystem.bg)



“Hydrosystem: Ltd. Was founded with 100% private capital. It covers an area of 30 000 sq m and floor space of 6000 sq m.

The company has 40 CNC machines, most of which are from the US brand HAAS. It also has installations for painting and carbonation. We recently purchased a laser cutting machine for parts up to 20mm thick. The staff is currently 110 people, including 20 engineers.

The major activity of the company is metal processing but in the course of its development it specialized in two main branches:

- Manufacture of hydraulic and pneumatic cylinders and parts for them. They are used in all kinds of farming and public utilities machines, electric and engine trucks, road-building machines, presses and other machines and equipment in which setting into motion is achieved with

high pressure hydraulic parts.

- Manufacture of medium-large equipment for small garages and workshops. These are hoisting devices for repair of cars, edge-polishing processing machines and medium-size hydraulic axes for chopping wood for fireplaces. All our products can be manufactured with the standard technical specifications, approved by the customer, as well as in compliance with a customer’s special requirements and needs. Our company has excellent controlling and measuring

equipment since quality and delivery on time are our priorities. We are mostly interested in finding foreign customers, as well as suppliers of the necessary materials for the production process.

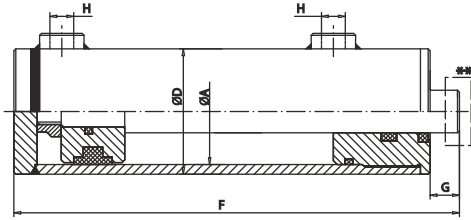
Our company does not have any debts and is trusted by its customers and creditors.

# HYDRO SYSTEM<sup>®</sup>

HYDRAULIC DEVICES



## 4 STANDARD CYLINDERS



1. Working diameter -  $\text{ØA}$  mm.
2. Tube: - DIN 2393 ISO H9
3. Rod: - steel **St - 52.3 (C 45)**;  
Chrom **25 ±5 Micron**
4. Temperature range: - **25°C + 80°C**
5. Max peak pressure: **max 200 bar**

### Rod - Ø20 mm

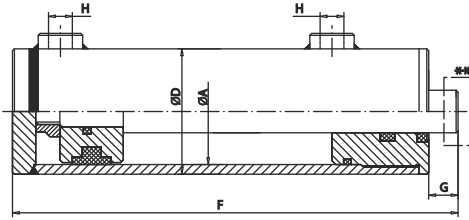
Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.04.20.100	40	100	230	22	50	1/4"	2.27
HS.04.20.150		150	280				2.67
HS.04.20.200		200	330				3.05
HS.04.20.250		250	380				3.45
HS.04.20.300		300	430				3.85
HS.04.20.350		350	480				4.27
HS.04.20.400		400	530				4.65
HS.04.20.450		450	580				5.08
HS.04.20.500		500	630				5.49
HS.04.20.550		550	680				5.89
HS.04.20.600		600	730				6.29

### Rod - Ø25 mm

Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.04.25.100	40	100	230	22	50	1/4"	2.55
HS.04.25.150		150	280				2.95
HS.04.25.200		200	330				3.39
HS.04.25.250		250	380				3.85
HS.04.25.300		300	430				4.32
HS.04.25.350		350	480				4.79
HS.04.25.400		400	530				5.26
HS.04.25.450		450	580				5.72
HS.04.25.500		500	630				6.20
HS.04.25.550		550	680				6.60
HS.04.25.600		600	730				7.13

specials cylinders with  
dimensions to 6000 mm

**HYDROSYSTEM®**



1. Working diameter -  $\text{ØA}$  mm.
2. Tube: - DIN 2393 ISO H9
3. Road: - steel St - 52.3 (C 45);  
Chrom  $25 \pm 5$  Micron
4. Temperature range: -  $25^{\circ}\text{C} + 80^{\circ}\text{C}$
5. Max peak pressure: max 200 bar

**Rod -  $\text{Ø}25$  mm**

Code	$\text{ØA}$	Stoke S	F	G	$\text{ØD}$	H	Kg.
HS.05.20.100	50	100	240	22	60	1/4"	3.29
HS.05.20.150		150	290				3.83
HS.05.20.200		200	340				4.34
HS.05.20.250		250	390				4.85
HS.05.20.300		300	440				5.35
HS.05.20.350		350	490				5.94
HS.05.20.400		400	540				6.40
HS.05.20.450		450	590				7.30
HS.05.20.500		500	640				7.43
HS.05.20.550		550	690				8.06
HS.05.20.600		600	740				8.46
HS.05.20.800		800	940				10.71
HS.05.20.1000		1000	1140				12.87

**Rod -  $\text{Ø}30$  mm**

Code	$\text{ØA}$	Stoke S	F	G	$\text{ØD}$	H	Kg.
HS.05.30.100	50	100	240	22	60	3/8"	3.49
HS.05.30.150		150	290				4.11
HS.05.30.200		200	340				4.47
HS.05.30.250		250	390				5.35
HS.05.30.300		300	440				5.97
HS.05.30.350		350	490				6.55
HS.05.30.400		400	540				7.20
HS.05.30.450		450	590				7.80
HS.05.30.500		500	640				8.42
HS.05.30.550		550	690				9.04
HS.05.30.600		600	740				9.64
HS.05.30.800		800	940				12.10
HS.05.30.1000		1000	1140				14.57

## 6 STANDARD CYLINDERS

### Rod - Ø30 mm

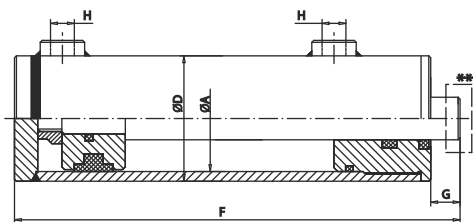
Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.06.30.100	50	100	260	23	70	3/8"	4.82
HS.06.30.150		150	310				5.55
HS.06.30.200		200	360				6.20
HS.06.30.250		250	410				6.87
HS.06.30.300		300	460				7.55
HS.06.30.350		350	510				8.20
HS.06.30.400		400	560				8.90
HS.06.30.450		450	610				9.53
HS.06.30.500		500	660				10.25
HS.06.30.550		550	710				10.86
HS.06.30.600		600	760				11.60
HS.06.30.800		800	960				14.26
HS.06.30.1000		1000	1160				17.00

### Rod - Ø35 mm

Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.06.35.100	50	100	260	23	70	3/8"	3.29
HS.06.35.150		150	310				3.83
HS.06.35.200		200	360				4.34
HS.06.35.250		250	410				4.85
HS.06.35.300		300	460				5.35
HS.06.35.350		350	510				5.94
HS.06.35.400		400	560				6.40
HS.06.35.450		450	610				7.30
HS.06.35.500		500	660				7.43
HS.06.35.550		550	710				8.06
HS.06.35.600		600	760				8.46
HS.06.35.800		800	960				10.71
HS.06.35.1000		1000	1160				12.87

### Rod - Ø40 mm

Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.06.40.100	50	100	260	23	70	3/8"	3.29
HS.06.40.150		150	310				3.83
HS.06.40.200		200	360				4.34
HS.06.40.250		250	410				4.85
HS.06.40.300		300	460				5.35
HS.06.40.350		350	510				5.94
HS.06.40.400		400	560				6.40
HS.06.40.450		450	610				7.30
HS.06.40.500		500	660				7.43
HS.06.40.550		550	710				8.06
HS.06.40.600		600	760				8.46
HS.06.40.800		800	960				10.71
HS.06.40.1000		1000	1160				12.87



1. Working diameter -  $\text{ØA}$  mm.
2. Tube: - DIN 2393 ISO H9
3. Road: - steel St - 52.3 (C 45);  
Chrom  $25 \pm 5$  Micron
4. Temperature range: -  $25^{\circ}\text{C} + 80^{\circ}\text{C}$
5. Max peak pressure: max 200 bar

### Rod - $\text{Ø}35$ mm

Code	$\text{ØA}$	Stoke S	F	G	$\text{ØD}$	H	Kg.
HS.07.35.100	70	100	260	23	80	3/8"	6.09
HS.07.35.150		150	310				6.95
HS.07.35.200		200	360				7.74
HS.07.35.250		250	410				8.60
HS.07.35.300		300	460				9.40
HS.07.35.350		350	510				10.26
HS.07.35.400		400	560				11.00
HS.07.35.450		450	610				11.88
HS.07.35.500		500	660				12.60
HS.07.35.550		550	710				13.66
HS.07.35.600		600	760				14.20
HS.07.35.800		800	960				17.56
HS.07.35.1000		1000	1160				21.26

### Rod - $\text{Ø}40$ mm

Code	$\text{ØA}$	Stoke S	F	G	$\text{ØD}$	H	Kg.
HS.07.40.100	70	100	260	23	80	3/8"	3.95
HS.07.40.150		150	310				7.74
HS.07.40.200		200	360				8.49
HS.07.40.250		250	410				9.26
HS.07.40.300		300	460				10.24
HS.07.40.350		350	510				11.20
HS.07.40.400		400	560				12.80
HS.07.40.450		450	610				13.11
HS.07.40.500		500	660				14.01
HS.07.40.550		550	710				15.10
HS.07.40.600		600	760				15.99
HS.07.40.800		800	960				19.73
HS.07.40.1000		1000	1160				23.51

## Rod - Ø40 mm

Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.08.40.200	80	200	380	25	92	1/2"	11.08
HS.08.40.250		250	430				12.22
HS.08.40.300		300	480				13.35
HS.08.40.400		400	580				15.56
HS.08.40.500		500	680				17.77
HS.08.40.600		600	780				18.90
HS.08.40.800		800	980				24.50
HS.08.40.1000		1000	1180				25.63

## Rod - Ø50 mm

Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.08.50.200	80	200	380	25	92	1/2"	12.35
HS.08.50.250		250	430				13.73
HS.08.50.300		300	480				15.15
HS.08.50.400		400	580				16.55
HS.08.50.500		500	680				20.71
HS.08.50.600		600	780				22.11
HS.08.50.800		800	980				29.50
HS.08.50.1000		1000	1180				35.00

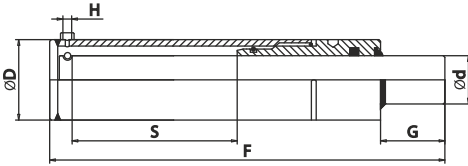
## Rod - Ø50 mm

Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.10.50.200	100	200	410	25	115	1/2"	19.20
HS.10.50.250		250	460				21.40
HS.10.50.300		300	510				23.00
HS.10.50.400		400	610				26.50
HS.10.50.500		500	710				30.00
HS.10.50.600		600	810				33.50
HS.10.50.800		800	1010				40.50
HS.10.50.1000		1000	1210				47.50

## Rod - Ø60 mm

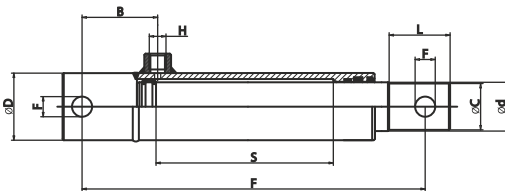
Code	ØA	Stoke S	F	G	ØD	H	Kg.
HS.10.60.200	100	200	410	25	115	1/2"	20.30
HS.10.60.250		250	460				23.40
HS.10.60.300		300	510				25.50
HS.10.60.400		400	610				29.50
HS.10.60.500		500	710				33.50
HS.10.60.600		600	810				37.50
HS.10.60.800		800	1010				46.00
HS.10.60.1000		1000	1210				54.50





1. Plunger: - steel **St - 52.3 (C 45)**
2. Max peak pressure: **max 200 bar**
3. Chrom: **25 ±5 Micron**
4. Temperature range: **- 25°C + 80°C**
5. Plunger speed: **max. 20m/min**

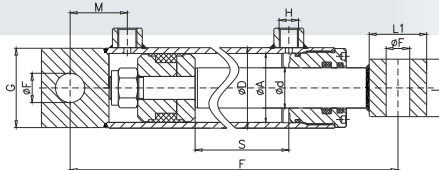
Code	Ød	Stoke S	Z	G	ØD	E	Kg.
HSSP.030.200	30	200	326	40	50		3.64
HSSP.030.250		250	376				4.19
HSSP.030.300		300	426				4.75
HSSP.030.350		350	476				5.31
HSSP.030.400		400	526				5.86
HSSP.030.500		500	626				6.96
HSSP.040.200	40	200	338	45	60	3/8"	5.64
HSSP.040.300		300	438				7.29
HSSP.040.400		400	538				8.98
HSSP.040.500		500	638				10.61
HSSP.040.600		600	738				12.28
HSSP.050.300	50	300	450	50	70		10.47
HSSP.050.400		400	550				12.86
HSSP.050.500		500	650				15.14
HSSP.050.600		600	750				17.50



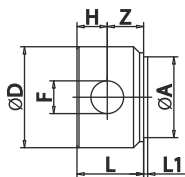
**SINGLE ACTING CYLINDERS**

Code	ØS	Stoke S	Z	ØE	M	ØH	L	ØF	ØG	Kg.
HSSP.025.100	25	100	190	3/8"	40	22	35	14	40	1.62
HSSP.025.150		150	240							2.05
HSSP.025.200		200	290							2.45
HSSP.025.250		250	340							2.85
HSSP.025.300		300	390							3.27
HSSP.030.200	30	200	300	3/8"	42	27	37	16	50	3.62
HSSP.030.250		250	350							4.17
HSSP.030.300		300	400							4.73
HSSP.030.350		350	450							5.28
HSSP.030.400		400	500							5.80
HSSP.040.200	40	200	330	3/8"	47	37	49	22	60	6.00
HSSP.040.250		250	380							6.85
HSSP.040.300		300	430							7.66
HSSP.040.350		350	480							8.50
HSSP.040.400		400	530							9.33

# 10 DUBLE ACTING CYLINDERS

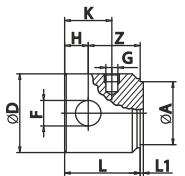


Code	ØD	ØA	Ød	Stoke S	F	ØH	M	L	L1	ØF	G	Kg.
HSDA.040.25.100	50	40	25	100	320	3/8"	45	40	40	20.5	50	3.24
HSDA.040.25.150				150	320							3.72
HSDA.040.25.200				200	370							4.20
HSDA.040.25.250				250	420							4.70
HSDA.040.25.300				300	470							5.20
HSDA.040.25.400				400	570							6.10
HSDA.040.25.500				500	670							7.00
HSDA.040.25.600				600	770							8.00
HSDA.040.25.700				700	870							8.90
HSDA.040.25.800				800	970							9.80
HSDA.050.30.100	60	50	30	100	320	3/8"	58	50	50	25.5	60	5.20
HSDA.050.30.150				150	320							5.80
HSDA.050.30.200				200	370							6.40
HSDA.050.30.250				250	420							7.00
HSDA.050.30.300				300	470							7.60
HSDA.050.30.400				400	570							8.90
HSDA.050.30.500				500	670							10.10
HSDA.050.30.600				600	770							11.30
HSDA.050.30.700				700	870							12.10
HSDA.050.30.800				800	970							13.80
HSDA.060.30.100	70	60	30	100	320	3/8"	58	50	50	25.5	70	6.30
HSDA.060.30.150				150	320							7.00
HSDA.060.30.200				200	370							7.70
HSDA.060.30.250				250	420							8.30
HSDA.060.30.300				300	470							9.00
HSDA.060.30.350				350	570							9.70
HSDA.060.30.400				400	670							10.40
HSDA.060.30.450				450	770							11.00
HSDA.060.30.500				500	870							11.70
HSDA.060.30.600				600	970							12.44
HSDA.060.30.700	700	320	14.35									
HSDA.070.40.200	80	70	40	200	320	3/8"	58	50	50	35.5	80	10.50
HSDA.070.40.250				250	370							11.40
HSDA.070.40.300				300	420							12.30
HSDA.070.40.350				350	470							13.30
HSDA.070.40.400				400	570							14.20
HSDA.070.40.450				450	670							15.20
HSDA.070.40.500				500	770							16.10
HSDA.070.40.600				600	870							18.20
HSDA.070.40.700				700	970							20.00
HSDA.080.40.200				92	80							40
HSDA.080.40.250	250	370	14.50									
HSDA.080.40.300	300	420	15.60									
HSDA.080.40.350	350	470	16.70									
HSDA.080.40.400	400	570	18.00									
HSDA.080.40.500	500	670	20.00									
HSDA.080.40.600	600	770	22.00									
HSDA.080.40.700	700	870	24.50									



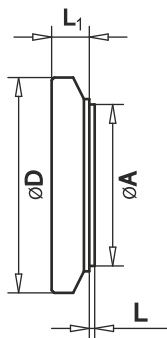
Code	$\varnothing A$	$\varnothing D$	L	$L_1$	$\varnothing F$	H	Z	Kg.
HSH.40.50.16	40	50	33	2	16	15	18	0.42
HSH.50.60.20	50	60	43	2	20	20	23	0.80
HSH.60.70.25	60	70	48	2	25	22.5	25.5	1.20
HSH.70.80.25	70	80	48	2	25	22.5	25.5	1.60
HSH.80.95.30	80	95	58	2	30	25	33	2.70
HSH.100.115.35	100	115	68	2	35	30	38	4.70

END PLUG WITH CROSS HOLE AND INLET PORT

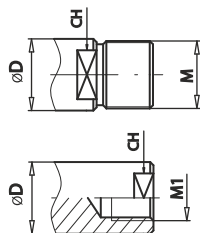


Code	$\varnothing A$	$\varnothing D$	L	$L_1$	$\varnothing F$	H	Z	$\varnothing G$	K	Kg.
HSH.40.50.16	40	50	33	2	16	15	18	18	18	0.42
HSH.50.60.20	50	60	43	2	20	20	23	23	23	0.80
HSH.60.70.25	60	70	48	2	25	22.5	25.5	25.5	25.5	1.20
HSH.70.80.25	70	80	48	2	25	22.5	25.5	25.5	25.5	1.60
HSH.80.95.30	80	95	58	2	30	25	33	33	33	2.70
HSH.100.115.35	100	115	68	2	35	30	38	38	38	4.70

END PLUG



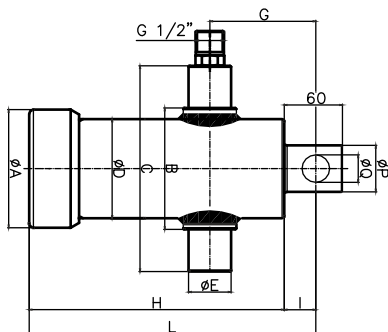
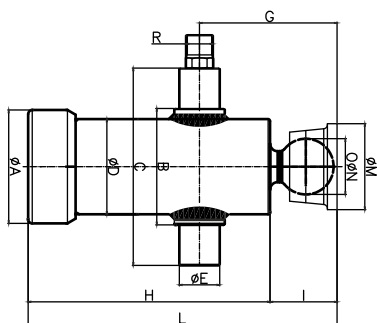
Code	$\varnothing A$	$\varnothing D$	L	$L_1$	Kg.
HSEP.030.040	30	40	6	2	0.06
HSEP.032.042	32	42	6	2	0.06
HSEP.035.045	35	45	8	2	0.10
HSEP.040.050	40	50	8	2	0.13
HSEP.045.055	45	55	8	2	0.16
HSEP.050.060	50	60	8	2	0.19
HSEP.060.070	60	70	10	2	0.33
HSEP.063.073	63	73	10	2	0.35
HSEP.065.075	65	75	10	2	0.38
HSEP.065.080	65	80	10	2	0.40
HSEP.070.080	70	80	10	2	0.43
HSEP.075.090	75	90	10	2	0.53
HSEP.080.090	80	90	10	2	0.55
HSEP.080.095	80	95	10	2	0.58
HSEP.085.100	85	100	13	2	0.77
HSEP.090.105	90	105	13	2	0.86
HSEP.100.115	100	115	13	2	1.05
HSEP.110.125	110	125	13	2	1.34
HSEP.120.140	120	140	16	2	2.00
HSEP.125.145	125	145	16	2	2.11
HSEP.140.160	140	160	16	2	2.67
HSEP.150.170	150	170	18	2	3.33
HSEP.160.180	160	180	18	2	3.79



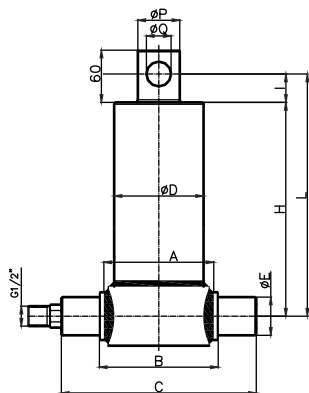
ROD	BORE			M	$M_1$	CH
20	40			M16x1.5	M12	17
25	50	40		M16x1.5	M14	22
30	50	60		M22x1.5	M20x1.5	27
35	60	70		M28x1.5	M24x2	30
40	60	70	80	M28x1.5	M30x2	36
50	80	100		M35x1.5	M36x2	41
60	100			M45x1.5	M45x2	50

Type of attachment to piston rod \*\*

**CILINDRI SOTTOCASSA  
UNDERBODY TIPPING GEARS  
VERINS SOUSCAISSE  
CILINDROS TRILATERALES  
MEHRKOLBEN PRESSEN**

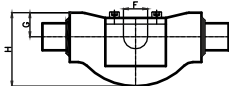
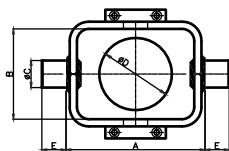


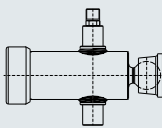
SFILO EXTENSION EXPANSION ETAPA ZYLINDERSTUF	DIAMETRO (mm) DIAMETER DIAMETRE DIAMETRO DURHMESS	SPINTA (kN) TIP - UP MASS MASSE REBALTABLE MASA VLCADA GESAMTKIPPMASSE
1"	145	301
2"	126	228
3"	107	161
4"	91	117
5"	76	81
6"	61	52
7"	46	30

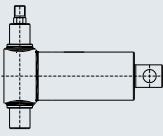


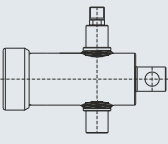
<b>PRESIONE MASSIMA DI LAVORO BRACKETS WORKING PRESSURE PRESSION D'UTILISATION MAXIMUM PRESSION MAXIMA DE TRABAJO MAXIMUM BETRIEBDRUCK</b>	<b>180 BAR</b>
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<b>CULLE PER CILINDRI CRADLES AND CYLINDERS BERCEAUX POUR VERINS CUNA Y CILINDROS CARDANRING ZYLINDERS</b>									
Code	A	B	C	D	E	F	G	H	kg.
HS 120	200	120	35	95	35	35	25	77	5.5
HS 140	230	140	40	114	40	35	27	90	8.0
HS 150	230	155	40	127	40	40	29	110	9.5
HS 180	280	180	50	152	40	45	45	120	12.5
HS 200	320	200	50	168	45	50	45	150	22.0



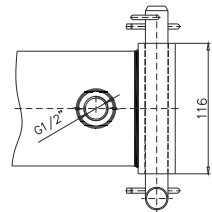
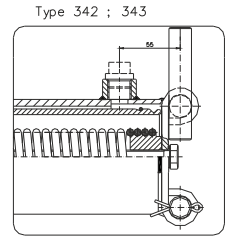
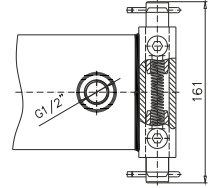
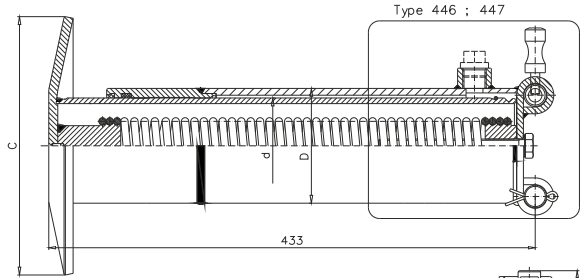
	MASSA RIBALTABILE TIP - UP MASS MASSE BASCULANT MASA VOLCADA GESAMPTKIPPMASSE (TON)	DIMENSIONI DEI CILINDRI DIMENSIONS OF CYLINDERS DIMENSIONI DES VERINS MEDIDAS (mm)											MASSA MASS MASSE MASA GEWICHT (kg.)	OLIO OIL HUILE ACEITE OELVER- BRAUCH (dm3)	
		A	B	C	D	E	G	H	I	L	M	N			R
		HS 500-76-2	5.4	110	115	195	95	35	155	330	80	410			115
HS 600-76-2	5.4	110	115	195	95	35	155	380	80	460	115	55	1/2"	20	2.7
HS 700-76-2	5.4	110	115	195	95	35	155	430	80	510	115	55	1/2"	22	3.2
HS 500-76-3	4.2	110	115	195	95	35	145	245	70	315	100	45	1/2"	13	2
HS 600-76-3	4.2	110	115	195	95	35	145	280	70	350	100	45	1/2"	14	2.3
HS 700-76-3	4.2	110	115	195	95	35	145	315	70	385	100	45	1/2"	17	2.7
HS 800-76-3	4.2	110	115	195	95	35	145	345	70	415	100	45	1/2"	18	3
HS 900-76-3	4.2	110	115	195	95	35	145	378	70	448	100	45	1/2"	19	3.3
HS 1050-76-3	4.2	110	115	195	95	35	145	428	70	498	100	45	1/2"	21	3.6
HS 500-91-3	6.6	130	135	215	114	35	155	245	80	325	115	55	1/2"	21	2.9
HS 600-91-3	6.6	130	135	215	114	35	155	280	80	360	115	55	1/2"	22	3.4
HS 700-91-3	6.6	130	135	215	114	35	155	315	80	395	115	55	1/2"	25	3.9
HS 800-91-3	6.6	130	135	215	114	35	155	345	80	425	115	55	1/2"	28	4.4
HS 900-91-3	6.6	130	135	215	114	35	155	380	80	460	115	55	1/2"	30	5
HS 1050-91-3	6.6	130	135	215	114	35	155	430	80	510	115	55	1/2"	33	5.8
HS 1150-91-3	6.6	130	135	215	114	35	155	465	80	545	115	55	1/2"	36	6.3
HS 480-91-4	5.4	130	135	215	114	35	145	200	70	270	100	45	1/2"	17	2.5
HS 600-91-4	5.4	130	135	215	114	35	145	230	70	300	100	45	1/2"	18	3
HS 680-91-4	5.4	130	135	215	114	35	145	250	70	320	100	45	1/2"	19	3.3
HS 850-91-4	5.4	130	135	215	114	35	145	290	70	360	100	45	1/2"	24	4.2
HS 1050-91-4	5.4	130	135	215	114	35	145	340	70	410	100	45	1/2"	28	5
HS 1150-91-4	5.4	130	135	215	114	35	145	365	70	435	100	45	1/2"	29	5.2
HS 600-107-4	8	145	150	230	127	40	155	230	80	310	115	55	1/2"	24	4.3
HS 680-107-4	8	145	150	230	127	40	155	250	80	330	115	55	1/2"	26	4.8
HS 850-107-4	8	145	150	230	127	40	155	295	80	375	115	55	1/2"	29	5.9
HS 950-107-4	8	145	150	230	127	40	155	320	80	400	115	55	1/2"	31	6.5
HS 1050-107-4	8	145	150	230	127	40	155	345	80	425	115	55	1/2"	32	7.1
HS 1200-107-4	8	145	150	230	127	40	155	380	80	460	115	55	1/2"	35	8.1
HS 1300-107-4	8	145	150	230	127	40	155	405	80	485	115	55	1/2"	36	8.7
HS 1500-107-4	8	145	150	230	127	40	155	455	80	535	115	55	1/2"	38	10
HS 1700-107-4	8	145	150	230	127	40	155	505	80	585	115	55	1/2"	45	11.3
HS 500-107-5	6.6	145	150	230	127	40	145	180	70	250	100	45	1/2"	19	3.2
HS 700-107-5	6.6	145	150	230	127	40	145	220	70	290	100	45	1/2"	22	4.3
HS 850-107-5	6.6	145	150	230	127	40	145	250	70	320	100	45	1/2"	24	5.2
HS1050-107-5	6.6	145	150	230	127	40	145	290	70	360	100	45	1/2"	26	6.3
HS1150-107-5	6.6	145	150	230	127	40	145	311	70	381	100	45	1/2"	27	6.9
HS 1250-107-5	6.6	145	150	230	127	40	145	331	70	401	100	45	1/2"	29	7.4
HS 1500-107-5	6.6	145	150	230	127	40	145	381	70	451	100	45	1/2"	33	8
HS 1850-107-5	6.6	145	150	230	127	40	145	451	70	521	100	45	1/2"	42	10.2
HS 1250-107-6	5	145	150	230	127	40	145	291	70	355	100	45	1/2"	23	8
HS 1000-126-5	9.5	170	175	265	152	45	155	295	80	375	115	55	1/2"	34	8.3
HS 1250-126-5	9.5	170	175	265	152	45	155	345	80	425	115	55	1/2"	46	10.2
HS 1500-126-5	9.5	170	175	265	152	45	155	395	80	475	115	55	1/2"	51	12.2
HS 1700-126-5	9.5	170	175	265	152	45	155	435	80	515	115	55	1/2"	55	13.8
HS 1850-126-5	9.5	170	175	265	152	45	155	465	80	545	115	55	1/2"	59	14.9
HS 2150-126-5	9.5	170	175	265	152	45	155	525	80	605	115	55	1/2"	62	17.3
HS 1000-145-5	13	195	200	290	168	50	200	300	80	380	115	55	3/4"	45	12.6
HS 1250-145-5	13	195	200	290	168	50	200	350	80	430	115	55	3/4"	46	10.2
HS 1500-145-5	13	195	200	290	168	50	200	400	80	480	115	55	3/4"	51	12.2
HS 1850-145-5	13	195	200	290	168	50	200	470	80	550	115	55	3/4"	59	14.9
HS 2150-145-5	13	195	200	290	168	50	200	530	80	610	115	55	3/4"	62	17.3
HS 1500-145-6	11.3	195	200	290	168	50	200	350	80	430	115	55	3/4"	57	18.4
HS 1900-145-6	11.3	195	200	290	168	50	200	420	80	500	115	55	3/4"	66	20.2
HS 2300-145-6	11.3	195	200	290	168	50	200	485	80	565	115	55	3/4"	75	24.1
HS 2600-145-6	11.3	195	200	290	168	50	200	535	80	615	115	55	3/4"	81	28.9
HS 970-145-7	9.5	195	200	290	168	50	142	222	70	289	100	45	3/4"	37	9

	MASSA RIBALTABILE TIP - UP MASS MASSE BASCULANT MASA VOLCADA GESAMPTKIPPMASSE (TON)	DIMENSIONI DEI CILINDRI DIMENSIONS OF CYLINDERS DIMENSIONI DES VERINS MEDIDAS (mm)											MASSA MASS MASSE MASA GEWICHT (kg.)	OLIO OIL HUILE ACEITE OELVER- BRAUCH (dm3)
		A	B	C	D	E	H	I	L	P	Q			
HS 2 - 500 - 76	5.4	110	115	195	95	45	330	33	363	60	31	18	2.3	
HS 2 - 600 - 76	5.4	110	115	195	95	45	380	33	413	60	31	20	2.7	
HS 2 - 700 - 76	5.4	110	115	195	95	45	430	33	463	60	31	22	3.2	
HS 3 - 500 - 76	4.2	110	115	195	95	45	245	36	281	45	26	13	2.0	
HS 3 - 600 - 76	4.2	110	115	195	95	45	280	36	316	45	26	14	2.3	
HS 3 - 700 - 76	4.2	110	115	195	95	45	315	36	351	45	26	17	2.7	
HS 3 - 800 - 76	4.2	110	115	195	95	45	345	36	381	45	26	18	3.0	
HS 3 - 500 - 91	6.6	130	135	215	114	45	245	33	278	60	31	21	2.9	
HS 3 - 600 - 91	6.6	130	135	215	114	45	280	33	313	60	31	22	3.4	
HS 3 - 700 - 91	6.6	130	135	215	114	45	315	33	348	60	31	25	3.9	
HS 3 - 800 - 91	6.6	130	135	215	114	45	345	33	378	60	31	28	4.4	
HS 3 - 900 - 91	6.6	130	135	215	114	45	380	33	413	60	31	30	5.0	
HS 3 - 1050 - 91	6.6	130	135	215	114	45	430	33	463	60	31	33	5.8	
HS 3 - 1150 - 91	6.6	130	135	215	114	45	465	33	498	60	31	36	6.3	
HS 4 - 480 - 91	5.4	130	135	215	114	45	200	36	236	45	26	17	2.5	
HS 4 - 600 - 91	5.4	130	135	215	114	45	230	36	266	45	26	18	3.0	
HS 4 - 680 - 91	5.4	130	135	215	114	45	250	36	286	45	26	19	3.3	
HS 4 - 850 - 91	5.4	130	135	215	114	45	290	36	326	45	26	24	4.2	
HS 4 - 600 - 107	8	145	150	230	127	45	230	33	263	60	31	24	4.3	
HS 4 - 680 - 107	8	145	150	230	127	45	250	33	283	60	31	26	4.8	
HS 4 - 850 - 107	8	145	150	230	127	45	295	33	328	60	31	29	5.9	
HS 4 - 950 - 107	8	145	150	230	127	45	320	33	353	60	31	31	6.5	
HS 4 - 1050 - 107	8	145	150	230	127	45	345	33	378	60	31	32	7.1	
HS 4 - 1200 - 107	8	145	150	230	127	45	380	33	413	60	31	35	8.1	
HS 4 - 1300 - 107	8	145	150	230	127	45	405	33	438	60	31	36	8.7	
HS 4 - 1500 - 107	8	145	150	230	127	45	455	33	488	60	31	38	10.0	
HS 4 - 1700 - 107	8	145	150	230	127	45	505	33	538	60	31	45	11.3	
HS 5 - 500 - 107	6.6	145	150	230	127	45	180	36	216	45	26	19	3.2	
HS 5 - 700 - 107	6.6	145	150	230	127	45	220	36	256	45	26	22	4.3	
HS 5 - 850 - 107	6.6	145	150	230	127	45	250	36	286	45	26	24	5.2	
HS 5 - 1150 - 107	6.6	145	150	230	127	45	311	36	347	45	26	27	6.9	
HS 5 - 1250 - 107	6.6	145	150	230	127	45	331	36	367	45	26	29	7.4	
HS 5 - 1000 - 126	9.5	170	175	265	152	45	295	33	328	60	31	34	8.3	
HS 5 - 1250 - 126	9.5	170	175	265	152	45	345	33	378	60	31	46	10.2	
HS 5 - 1500 - 126	9.5	170	175	265	152	45	395	33	428	60	31	51	12.2	
HS 5 - 1850 - 126	9.5	170	175	265	152	45	465	33	498	60	31	59	14.9	
HS 5 - 2150 - 126	9.5	170	175	265	152	45	525	33	558	60	31	62	17.3	

	MASSA RIBALTABILE TIP - UP MASS MASSE BASCULANT MASA VOLCADA GESAMPTKIPPMASSE ( TON )	DIMENSIONI DEI CILINDRI DIMENSIONS OF CYLINDERS DIMENSIONI DES VERINS MEDIDAS ( mm )											MASSA MASS MASSE MASA GEWICHT (kg.)	OLIO OIL HUILE ACEITE OELVER- BRAUCH (dm3)
		A	B	C	D	E	G	H	I	L	P	Q		
HS 2 - 76 - 500	5.4	110	115	195	95	35	108	330	33	363	60	31	18	2.3
HS 2 - 76 - 600	5.4	110	115	195	95	35	108	380	33	413	60	31	20	2.7
HS 2 - 76 - 700	5.4	110	115	195	95	35	108	430	33	463	60	31	22	3.2
HS 3 - 76 - 500	4.2	110	115	195	95	35	111	245	36	281	45	26	13	2.0
HS 3 - 76 - 600	4.2	110	115	195	95	35	111	280	36	316	45	26	14	2.3
HS 3 - 76 - 700	4.2	110	115	195	95	35	111	315	36	351	45	26	17	2.7
HS 3 - 76 - 800	4.2	110	115	195	95	35	111	345	36	381	45	26	18	3.0
HS 3 - 91 - 500	6.6	130	135	215	114	35	108	245	33	278	60	31	21	2.9
HS 3 - 91 - 600	6.6	130	135	215	114	35	108	280	33	313	60	31	22	3.4
HS 3 - 91 - 700	6.6	130	135	215	114	35	108	315	33	348	60	31	25	3.9
HS 3 - 91 - 800	6.6	130	135	215	114	35	108	345	33	378	60	31	28	4.4
HS 3 - 91 - 900	6.6	130	135	215	114	35	108	380	33	413	60	31	30	5.0
HS 3 - 91 - 1050	6.6	130	135	215	114	35	108	430	33	463	60	31	33	5.8
HS 3 - 91 - 1150	6.6	130	135	215	114	35	108	465	33	498	60	31	36	6.3
HS 4 - 91 - 480	5.4	130	135	215	114	35	111	200	36	236	45	26	17	2.5
HS 4 - 91 - 600	5.4	130	135	215	114	35	111	230	36	266	45	26	18	3.0
HS 4 - 91 - 680	5.4	130	135	215	114	35	111	250	36	286	45	26	19	3.3
HS 4 - 91 - 850	5.4	130	135	215	114	35	111	290	36	326	45	26	24	4.2
HS 4 - 91 - 1050	5.4	130	135	215	114	35	111	340	36	376	45	26	28	5.0
HS 4 - 107 - 600	8	145	150	230	127	40	108	230	33	263	60	31	24	4.3
HS 4 - 107 - 680	8	145	150	230	127	40	108	250	33	283	60	31	26	4.8
HS 4 - 107 - 850	8	145	150	230	127	40	108	295	33	328	60	31	29	5.9
HS 4 - 107 - 950	8	145	150	230	127	40	108	320	33	353	60	31	31	6.5
HS 4 - 107 - 1050	8	145	150	230	127	40	108	345	33	378	60	31	32	7.1
HS 4 - 107 - 1200	8	145	150	230	127	40	108	380	33	413	60	31	35	8.1
HS 4 - 107 - 1300	8	145	150	230	127	40	108	405	33	438	60	31	36	8.7
HS 4 - 107 - 1500	8	145	150	230	127	40	108	455	33	488	60	31	38	10.0
HS 4 - 107 - 1700	8	145	150	230	127	40	108	505	33	538	60	31	45	11.3
HS 5 - 107 - 500	6.6	145	150	230	127	40	111	180	36	216	45	26	19	3.2
HS 5 - 107 - 700	6.6	145	150	230	127	40	111	220	36	256	45	26	22	4.3
HS 5 - 107 - 850	6.6	145	150	230	127	40	111	250	36	286	45	26	24	5.2
HS 5 - 107 - 1150	6.6	145	150	230	127	40	111	311	36	347	45	26	27	6.9
HS 5 - 107 - 1250	6.6	145	150	230	127	40	111	331	36	367	45	26	29	7.4
HS 5 - 107 - 1500	6.6	145	150	230	127	40	111	381	36	417	45	26	33	8.0
HS 5 - 126 - 1000	9.5	170	175	265	152	45	108	295	33	328	60	31	34	8.3
HS 5 - 126 - 1250	9.5	170	175	265	152	45	108	345	33	378	60	31	46	10.2
HS 5 - 126 - 1500	9.5	170	175	265	152	45	108	395	33	428	60	31	51	12.2
HS 5 - 126 - 1850	9.5	170	175	265	152	45	108	465	33	498	60	31	59	14.9
HS 5 - 126 - 2150	9.5	170	175	265	152	45	108	525	33	558	60	31	62	17.3

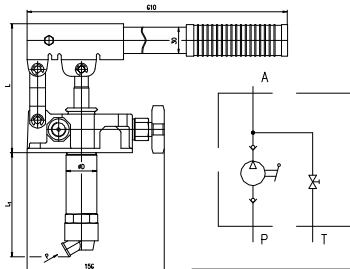


Nominal pressure - 150 bar  
Stroke - 250<sup>+3</sup>mm



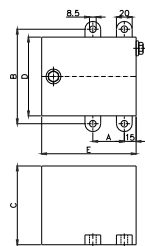
TYPE	Dimension		
	d	D	C
446.1.00.00	85	102	230
446.2.00.00	85	102	180
342.1.00.00	85	102	230
342.2.00.00	85	102	180
447.1.00.00	65	80	160
447.2.00.00	65	80	190
447.3.00.00	65	80	230
447.4.00.00	65	80	215
343.1.00.00	65	80	160
343.2.00.00	65	80	190
343.3.00.00	65	80	230
343.3.00.00	65	80	215

HYDRAULIC HAND PUMP



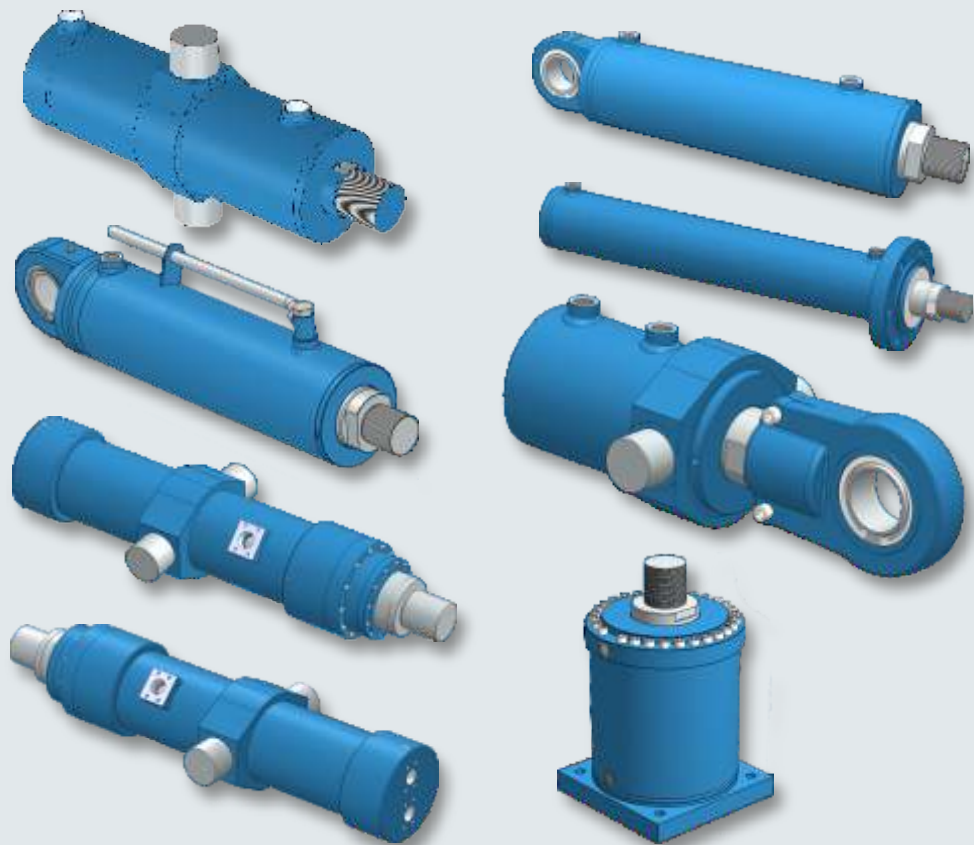
TYPE	FLOW (cc)	Pressure (Bar)	
		Exercise	Max
HHP 25	25	280	350

HYDRAULIC HAND PUMP

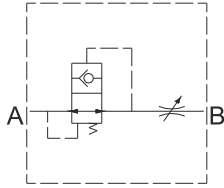


TYPE	Tank capacity (liters)	Pressure (Bar)				
		A	B	C	D	E
HOT 1	1	90	120	150	100	120
HOT 2	2	90	120	150	100	180
HOT 3	3	90	120	150	100	247
HOT 5	5	90	195	175	175	200
HOT 7	7	90	195	175	175	269

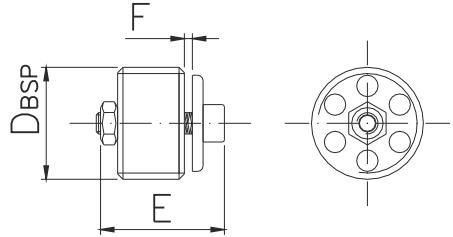
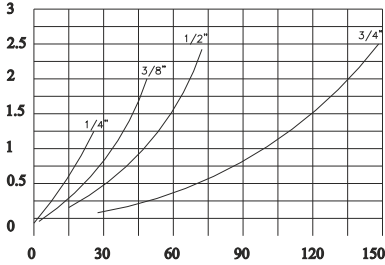




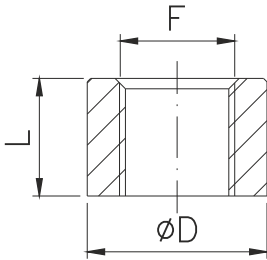
OUR COMPANY MANUFACTURES HYDRAULIC CYLINDERS  
WITH DIAMETER  $\varnothing 32$  TO  $\varnothing 200$ MM AND WORKING STROKE UP TO 3000MM



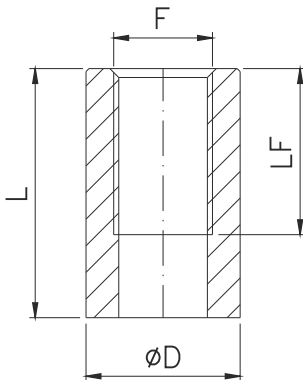
TYPE	D	E	P Max
Ak 14	1/4	17	350
Ak 38	3/8	20.5	350
Ak 12	1/2	25	350
Ak 34	3/4	31	350



**THREAD PORT**



TYPE	F	L	ØD	Kg.
HSC.0014	G1/4"	16	22	0.03
HSC.0038	G3/8"	17	26	0.04
HSC.0012	G1/2"	18	30	0.05
HSC.0034	G3/4"	20	38	0.10
HSC.0010	G1"	25	45	0.16
HSC.1415	M14x1.5	16	22	0.03
HSC.1615	M16x1.5	17	26	0.04
HSC.1815	M18x1.5	18	28	0.04
HSC.2015	M20x1.5	18	30	0.06
HSC.2215	M22x1.5	18	30	0.05



**HIGH THREADED D PORT**

TYPE	F	LF	L	D	Kg.
HSCH.0014	G1/4"	27	40	22	0.08
HSCH.0038	G3/8"	28	42	26	0.11
HSCH.0012	G1/2"	33	48	30	0.15



#### CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

**HYDROSYSTEM Ltd.**  
Yambol  
Bulgaria

has been approved by Lloyd's Register Quality Assurance  
to the following Quality Management System Standards:

**BS EN ISO 9001:2008 EN ISO 9001:2008 ISO 9001:2008**

The Quality Management System is applicable to:

**Design and production of hydraulic and pneumatic cylinders,  
machines and equipment**

Approval  
Certificate No. 50F004759

Original Approval: 15<sup>th</sup> October 2008

Current Certificate: 17<sup>th</sup> October 2010

Certificate Expiry: 16<sup>th</sup> October 2011

*Stamen*  
Issued by Lloyd's Register EMIA branch for and on behalf  
of Lloyd's Register Quality Assurance Limited



This document is subject to the provisions of BS 5400:4

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**HYDRO-SYSTEM<sup>®</sup>**

HYDRAULIC DEVICES

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