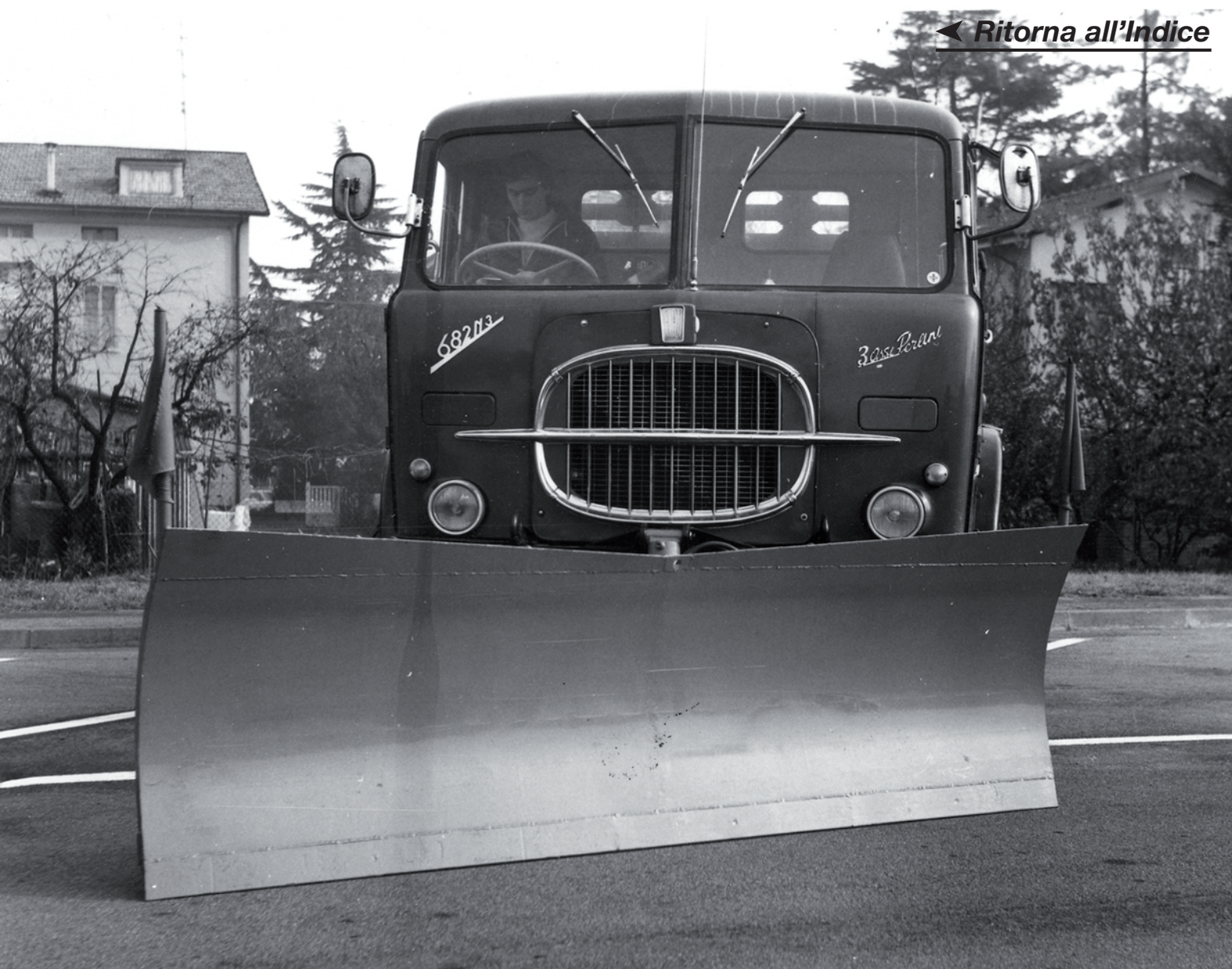


# OLEODINAMICA

[← Ritorna all'Indice](#)



ENGINEERING

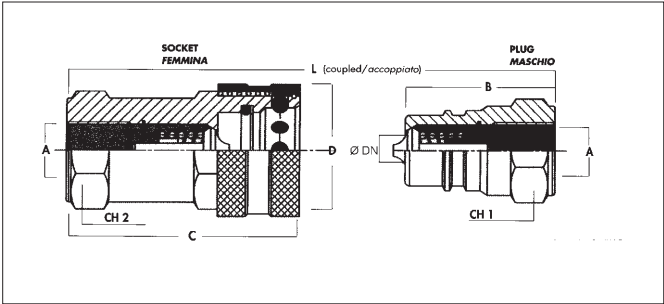


OFFICINA  SOLE

OLEODINAMICA

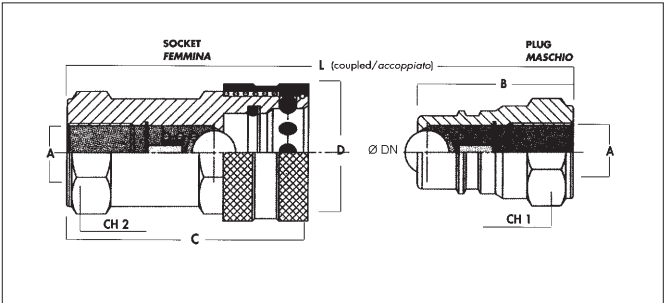
INNESTI RAPIDI - SERIE N  
QUICK DISCONNECT COUPLINGS - SERIES N  
SCHNELLKUPPLUNG - N REIHE

VALVOLA A FUNGHETTO  
POPPET VALVE  
PILZVENTIL



ART		Ø A	B	C	Ø D	L	Ch1	Ch2	Ø DN
MASCIO PLUG STECKER	FEMMINA SOCKET MUFFE		mm	mm	mm	mm	mm	mm	mm
HNM10-04	HNF10-04	1/4" BSP	35	52	27	70,5	19	21	6
HNM10-06	HNF10-06	3/8" BSP	39	60,5	31	79,5	22	24	10
HNM18-06	HNF18-06	3/8" BSPT							
HAM10-08	HAF10-08	1/2" BSP	46	67,5	38	92	27	30	12
HAM15-08	HAF15-08	1/2" NPTF							
HAM18-08	HAF18-08	1/2" BSPT							
HNM10-12	HNF10-12	3/4" BSP	53	82	46	106	34	38	20
HNM10-16	HNF10-16	1" BSP	58	95	55	120	41	45	25

VALVOLA A SFERA  
BALL VALVE  
KUGELVENTIL



ART		Ø A	B	C	Ø D	L	Ch1	Ch2	Ø DN
MASCIO PLUG STECKER	FEMMINA SOCKET MUFFE		mm	mm	mm	mm	mm	mm	mm
HNM20-04	HNF20-04	1/4" BSP	35	52	27	70,5	19	21	6
HNM20-06	HNF20-06	3/8" BSP	39	60,5	31	79,5	22	24	10
HNM28-06	HNF28-06	3/8" BSPT							
HAM20-08	HAF20-08	1/2" BSP	46	67,5	38	92	27	30	12
HAM28-08	HAF28-08	1/2" BSPT							
HNM20-12	HNF20-12	3/4" BSP	53	82	46	106	34	38	20
HNM20-16	HNF20-16	1" BSP	58	95	55	120	41	45	25



## INNESTI RAPIDI - SERIE N

## QUICK DISCONNECT COUPLINGS - SERIES N

## SCHNELLKUPPLUNG - N REIHE

## CARATTERISTICHE PRINCIPALI

La serie N corrisponde al tipo di intercambiabilità più diffusa a livello internazionale per applicazioni relative a macchine ed attrezzature agricole.

La misura 1/2" è identica alla serie A ed è quindi intercambiabile secondo la norma ISO 7241-A.

- Disponibile con valvola a funghetto o sfera
- Materiale standard: acciaio
- Parte maschio in acciaio temprato ad induzione
- Valvole interne in acciaio temprato
- Guarnizioni standard in gomma nitrilica
- Anelli antiestrusione in teflon
- Temperature esercizio con guarnizioni standard: -20°C/+110°C

## MAIN DATA

Series N design, also known as agricultural interchange, is probably the most popular coupling design worldwide on agricultural applications.

- Available with both poppet and ball valve
- Standard material: steel
- Plugs treated with induction hardening
- Internal valves in hardened steel
- Standard seals in nitril rubber
- Back-up seals in teflon
- Working temperature with standard nitril seals: -20°C/+110°C

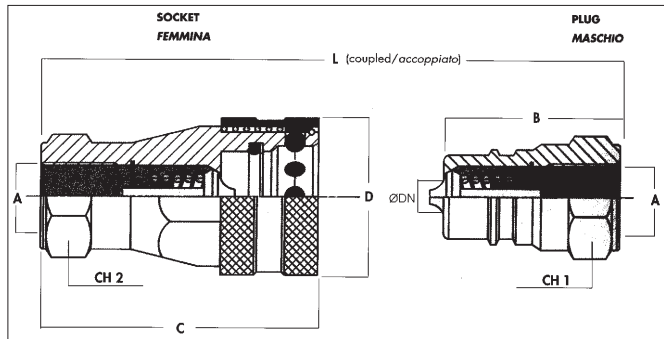
## PRESTAZIONI / PERFORMANCE / LEISTUNG

ØDN		MAX PRESSIONE ESERCIZIO MAX. WORK PRESSURE		PRESSIONE SCOPPIO BURST PRESSURE		PESO /WEIGHT /GEWICHT			
						MASCHIO/PLUG/STECKER		FEMMINA/SOCKET/MUFFE	
mm	inch	bar	psi	bar	psi	kg	lbs	kg	lbs
6	1/4"	350	5075,0	1400	20300	0,04	0,08	0,10	0,22
10	3/8"	315	4567,5	1260	18270	0,07	0,15	0,20	0,44
12	1/2"	250	3625,0	1000	14500	0,09	0,20	0,26	0,57
20	3/4"	250	3625,0	1000	14500	0,18	0,40	0,50	1,11
25	1"	250	335,0	920	13340	0,23	0,51	0,76	1,68

## INNESTI RAPIDI - SERIE A - ISO 7241-A

## QUICK DISCONNECT COUPLINGS - SERIES A-ISO 7241-A

## SCHNELLKUPPLUNG - A-ISO 7241-A REIHE



ART		ØA*	B	C	ØD	L	Ch1	Ch2	ØDN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE		mm	mm	mm	mm	mm	mm	mm
HAM10-04	HAF10-04	1/4"BSP	35	47,0	25	71,0	19	19	6
HAM18-04	HAF18-04	1/4"BSPT							
HAM10-06	HAF10-06	3/8"BSP	39	58,0	31	79,5	22	24	10
HAM18-06	HAF18-06	3/8"BSPT							
HAM10-08	HAF10-08	1/2"BSP	46	67,5	38	92,0	27	30	12
HAM15-08	HAF15-08	1/2"NPTF							
HAM18-08	HAF18-08	1/2"BSPT							
HAM10-12	HAF10-12	3/4"BSP	54	81,0	46	108,0	34	38	20
HAM18-12	HAF18-12	3/4"BSPT							
HAM10-16	HAF10-16	1"BSP	62	96,0	55	124,0	41	45	25
HAM18-16	HAF18-16	1"BSPT							

## CARATTERISTICHE PRINCIPALI

La serie A ha intercambiabilità e prestazioni secondo la normativa ISO 7241-A. Si tratta di uno tra i più diffusi tipi di innesto rapido a livello internazionale e trova applicazione su un'ampia gamma di attrezzature mobili e industriali.

- Materiale standard: acciaio
- Parte maschio in acciaio temprato ad induzione
- Valvole interne in acciaio temprato
- Guarnizioni standard in gomma nitrilica
- Anelli antiestrusione in Teflon
- Temperature esercizio con guarnizioni standard: -20°C/+110°C

## MAIN DATA

Series A is designed to interchange and perform according to ISO 7241-A standard.

- Standard material: steel
- Plugs treated with induction hardening
- Internal valves in hardened steel
- Standard seals in nitril rubber
- Back-up seals in teflon
- Working temperature with standard nitril seals: -20°C/-110°C

## PRESTAZIONI / PERFORMANCE / LEISTUNG

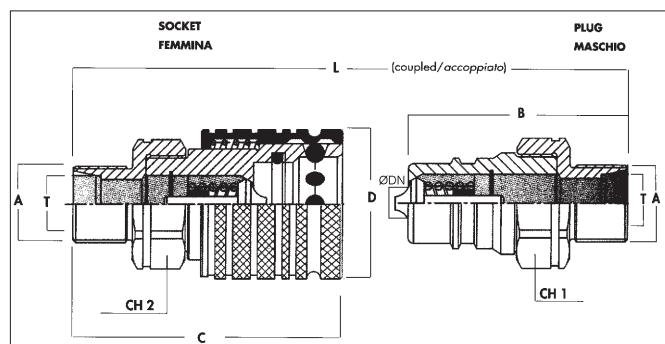
ØDN		MAX PRESSIONE ESERCIZIO MAX. WORK PRESSURE		PRESSIONE SCOPPIO BURST PRESSURE		PESO /WEIGHT /GEWICHT			
						MASCHIO/PLUG/STECKER		FEMMINA/SOCKET/MUFFE	
mm	inch	bar	psi	bar	psi	kg	lbs	kg	lbs
6	1/4"	350	5075,0	1400	20300	0,045	0,100	0,080	0,18
10	3/8"	315	4567,5	1260	18270	0,055	0,122	0,150	0,33
12	1/2"	250	3625,0	1000	14500	0,090	0,200	0,270	0,60
20	3/4"	250	3625,0	1000	14500	0,185	0,410	0,465	1,03
25	1"	230	3335,0	920	13340	0,270	0,600	0,720	1,60
32	1"1/4	230	3335,0	920	13340	0,600	1,330	1,250	2,78
38	1"1/2	190	2755	760	11020	0,900	2,000	2,100	4,67
50	2"	130	1885	520	7540	1,450	3,220	4,150	9,22



## SERIE P DIN 2353 L/S

## P SERIES PUSH-PULL COUPLINGS

## ABREISSKUPPLUNG "PUSH-PULL"



## SERIE LEGGERA

## LIGHT SERIES

## LEICHTE REIHE

ART		ØT	ØA	B	C	ØD	L	Ch 1-2	Ø DN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE			mm	mm	mm	mm	mm	mm
HAM11-08L	HPF11-08L	8	M14X1,5	56	71	38	106	27	12
HAM11-10L	HPF11-10L	10	M16X1,5	57	72	38	108	27	12
HAM11-12L	HPF11-12L	12	M18X1,5	57	72	38	108	27	12
HAM11-15L	HPF11-15L	15	M22X1,5	58	73	38	110	27	12
HAM11-18L	HPF11-18L	18	M26X1,5	58	73	38	110	27	12

## SERIE PESANTE

## HEAVY SERIES

## SCHWERE REIHE

ART		ØT	ØA	B	C	ØD	L	Ch 1-2	Ø DN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE			mm	mm	mm	mm	mm	mm
HAM12-08S	HPF12-08S	8	M16X1,5	58	73	38	110	27	12
HAM12-10S	HPF12-10S	10	M18X1,5	58	73	38	110	27	12
HAM12-12S	HPF12-12S	12	M20X1,5	58	73	38	110	27	12
HAM12-14S	HPF12-14S	14	M22X1,5	60	75	38	114	27	12
HAM12-16S	HPF12-16S	16	M24X1,5	60	75	38	114	27	12
HAM12-20S	HPF12-20S	20	M30X2	62	77	38	118	30	12

## CARATTERISTICHE PRINCIPALI

Gli innesti rapidi push-pull serie P sono disponibili con valvola a funghetto o a sfera in varie opzioni di filettatura: BSP, Npt e metrica 24° DIN 2353.

Questa serie viene tipicamente utilizzata su macchine e attrezzature agricole dove si caratterizza per la possibilità di montaggio a parete con il possibile aggancio/sgancio con una sola mano.

Questo innesto è intercambiabile secondo le normative ISO 7241-A e ISO 5675. Caratteristiche base:

- Valvola a funghetto o a sfera
- Materiale: Acciaio
- Valvola a funghetto in acciaio temprato
- Guarnizioni standard in gomma nitrilica
- Anelli antiestrusione in teflon
- Temperature di esercizio con guarnizioni standard: -20°C/+110°C

Opzioni speciali: l'innesto è disponibile con una valvola speciale che permette aggancio anche in presenza di pressioni residue.

## MAIN DATA

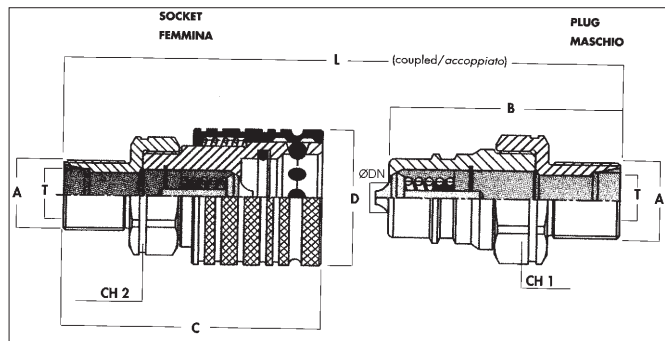
The P series push-pull couplings are interchangeable according to ISO 7241-A and ISO 5675. These couplings are normally adopted on agricultural implements and applications; the possible panel mounting allows to easily connect and disconnect plug and socket with one hand only. P series couplings are available with both poppet valve and ball valve; the standard thread are BSP, NPTF and metric male 24° according to DIN 2353.

## Main data:

- Poppet or ball valves
- Interchangeable ISO 7241-A and ISO 5675
- Material: steel
- Poppet valve in hardened steel
- Plug in hardened steel
- Working temperatures with standard seals -20°C/+110°C
- Standard seals in nitril rubber
- Back-up ring in teflon

Special features: a special valve is available on request to allow the plug to be connected in presence of residual back pressure.

**SERIE P DIN 2353 L/S PASSAPARETE**  
**PUSH-PULL**  
**ABREISSKUPPLUNG "PUSH-PULL"**



**SERIE LEGGERA**  
**LIGHT SERIES**  
**LEICHTE REIHE**

ART		ØT	ØA	B	C	ØD	L	Ch 1-2	Ø DN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE			mm	mm	mm	mm	mm	mm
HAM13-08L	HPF13-08L	8	M14X1,5	72	87	38	138	27	12
HAM13-10L	HPF13-10L	10	M16X1,5	72	87	38	138	27	12
HAM13-12L	HPF13-12L	12	M18X1,5	72	87	38	138	27	12
HAM13-15L	HPF13-15L	15	M22X1,5	73	88	38	140	27	12
HAM13-18L	HPF13-18L	18	M26X1,5	73	88	38	140	27	12

**SERIE PESANTE**  
**HEAVY SERIES**  
**SCHWERE REIHE**

ART		ØT	ØA	B	C	ØD	L	Ch 1-2	Ø DN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE			mm	mm	mm	mm	mm	mm
HAM14-08S	HPF14-08S	8	M16X1,5	73	88	38	140	27	12
HAM14-10S	HPF14-10S	10	M18X1,5	73	88	38	140	27	12
HAM14-12S	HPF14-12S	12	M20X1,5	73	88	38	140	27	12
HAM14-14S	HPF14-14S	14	M22X1,5	75	90	38	144	27	12
HAM14-16S	HPF14-16S	16	M24X1,5	75	90	38	144	27	12
HAM14-20S	HPF14-20S	20	M30X2	78	93	38	150	30	12



## SERIE P ISO 7241-A/ISO5675

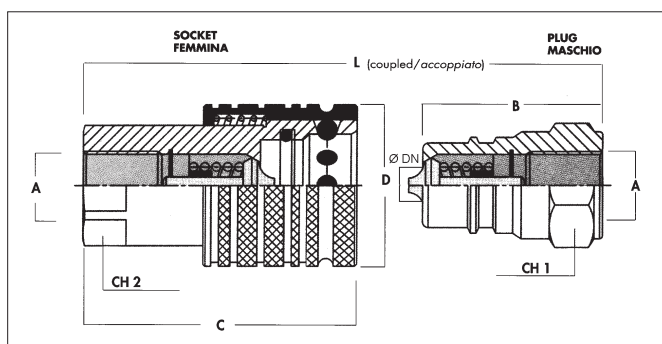
## PUSH-PULL

## ABREISSKUPPLUNG "PUSH-PULL"

INNESTI RAPIDI, VALVOLA A FUNGHETTO

QUICK DISCONNECT COUPLINGS, POPPET VALVE

SCHNELLKUPPLUNG MIT PILZVENTIL

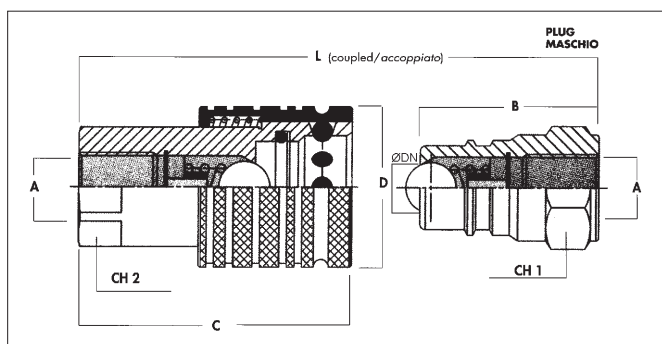


ART		ØA	B	C	ØD	L	Ch1	Ch2	ØDN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE		mm	mm	mm	mm	mm	mm	mm
HAM10-08	HPF10-08	1/2"BSP	46	67	38	92	27	24	12
HAM15-08	HPF15-08	1/2"NPT							

INNESTI RAPIDI, VALVOLA A SFERA

QUICK DISCONNECT COUPLINGS, BALL VALVE

SCHNELLKUPPLUNG MIT KUGELVENTIL



ART		ØA	B	C	ØD	L	Ch1	Ch2	ØDN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE		mm	mm	mm	mm	mm	mm	mm
HAM20-08	HPF20-08	1/2"BSP	46	67	38	92	27	24	12
HAM25-08	HPF25-08	1/2"NPT							

SERIE P ISO 7241-A/ISO5675  
PUSH-PULL  
ABREISSKUPPLUNG “PUSH-PULL”

**CARATTERISTICHE PRINCIPALI**  
Gli innesti rapidi push-pull serie P sono disponibili con valvola a funghetto o a sfera in varie opzioni di filettatura: BSP, Npt e metrica 24° DIN 2353.  
Questa serie viene tipicamente utilizzata su macchine e attrezzature agricole dove si caratterizza per la possibilità di montaggio a parete con il possibile aggancio/sgancio con una sola mano.  
Questo innesto è intercambiabile secondo le normative ISO 7241-A e ISO 5675.  
Caratteristiche base:  
•Valvola a funghetto o a sfera  
•Materiale: Acciaio  
•Valvola a funghetto in acciaio temprato  
•Guarnizioni standard in gomma nitrilica  
•Anelli antiestrusione in teflon  
•Temperature di esercizio con guarnizioni standard: -20°C/+110°C  
Opzioni speciali: l'innesto è disponibile con una valvola speciale che permette aggancio anche in presenza di pressioni residue.

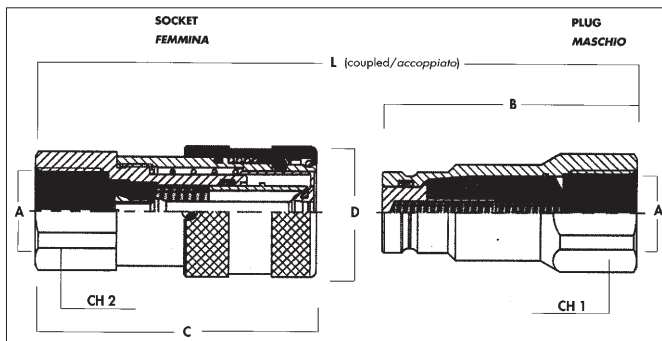
**MAIN DATA**  
The P series push-pull couplings are interchangeable according to ISO 7241-A and ISO 5675. These couplings are normally adopted on agricultural implements and applications; the possible panel mounting allows to easily connect and disconnect plug and socket with one hand only. P series couplings are available with both poppet valve and ball valve; the standard thread are BSP, NPTF and metric male 24° according to DIN 2353.  
Main data:  
•Poppet or ball valves  
•Interchangeable ISO 7241-A and ISO 5675  
•Material: steel  
•Poppet valve in hardened steel  
•Plug in hardened steel  
•Working temperatures with standard seals -20°C/+110°C  
•Standard seals in nitril rubber  
•Back-up ring in teflon  
Special features: a special valve is available on request to allow the plug to be connected in presence of residual back pressure.

PRESTAZIONI / PERFORMANCE / LEISTUNG

ØDN		MAX PRESSIONE ESERCIZIO MAX. WORK PRESSURE		PRESSIONE SCOPPIO BURST PRESSURE		PESO /WEIGHT /GEWICHT			
						MASCHIO/PLUG/STECKER		FEMMINA/SOCKET/MUFFE	
mm	inch	bar	psi	bar	psi	kg	lbs	kg	lbs
12	1/2"	250	3625	1000	14500	0,090	0,200	0,200	0,613



## SERIE F ISO 16028



ART		ØA*	B	C	ØD	L	Ch1	Ch2	ØDN
MASCHIO PLUG/STECKER	FEMMINA SOCKET/MUFFE		mm	mm	mm	mm	mm	mm	mm
HFM10-04	HFF10-04	1/4"BSP							
HFM15-04	HFF15-04	1/4"NPTF	48,0	48,0	28	85,5	22	22	7
HFM18-04	HFF18-04	1/4"BSPT							
HFM10-06	HFF10-06	3/8"BSP							
HFM15-06	HFF15-06	3/8"NPTF	60,0	64,5	32	109	24	27	9
HFM18-06	HFF18-06	3/8"BSPT							
HFM10-08	HFF10-08	1/2"BSP							
HFM15-08	HFF15-08	1/2"NPTF	62,5	69,5	32	117	27	27	9
HFM18-08	HFF18-08	1/2"BSPT							
HFM20-08	HFF20-08	1/2"BSP							
HFM25-08	HFF25-08	1/2"NPTF	68,0	73,5	38	125	32	32	13
HFM28-08	HFF28-08	1/2"BSPT							
HFM10-12	HFF10-12	3/4"BSP							
HFM15-12	HFF15-12	3/4"NPTF	70,5	80,5	38	135	36	36	13
HFM18-12	HFF18-12	3/4"BSPT							
HFM20-12	HFF20-12	3/4"BSP							
HFM25-12	HFF25-12	3/4"NPTF	70,5	78,0	42	132	36	36	15
HFM28-12	HFF28-12	3/4"BSPT							
HFM10-16	HFF10-16	1"BSP							
HFM15-16	HFF15-16	1"NPTF	82,5	92,5	48	154	45	45	17
HFM18-16	HFF18-16	1"BSPT							

SERIE F ISO 16028

CARATTERISTICHE PRINCIPALI  
Gli innesti a facce piane serie F trovano applicazione in molti settori oleodinamici e industriali, offrendo tutti i vantaggi tipici di questo concetto costruttivo:

- Tenuta totale con innesti separati e accoppiati
- Perdite di fluido bassissime nelle fasi di accoppiamento e sgancio
- Nessuna intrusione di agenti esterni durante le connessioni
- Facile pulizia delle superfici di accoppiamento
- Ghiera con sistema anti-sgancio
- Guarnizioni standard in gomma nitrilica
- Anelli antiestrusione in teflon
- Temperature di esercizio con guarnizioni standard: -20°C/+110°C
- Misura 3/8 (DN 9) intercambiabile secondo norme HTMA

MAIN DATA  
Series F flat face couplings are adopted on the most diversified hydraulic and industrial applications. The F series flat face design offers important technical advantages:

- Perfect sealing of plug and socket both when coupled and uncoupled
- Extremely low spillage during connection and disconnection
- No inclusion of air or external media during connection and disconnection
- The flat faces are easy to clean
- Sleeve with a safety device preventing from accidental disconnection
- Standard seals in nitril rubber
- Antiextrusion ring in teflon
- Working temperatures with standard seals -20°C/+110°C
- Body size 3/8 (DN 9) is interchangeable according to HTMA design

PRESTAZIONI / PERFORMANCE / LEISTUNG

Ø DN	MAX. WORK PRESSURE		PRESSIONE SCOPPIO/BURST PRESSURE						PESO/WEIGHT/GEWICHT				FORZA AGGANCIO FORCE TO CONNECT	
			ACCOPIATO COUPLED		MASCHIO PLUG/STECKER		FEMMINA SOCKET/MUFFE		MASCHIO PLUG/STECKER		FEMMINA SOCKET/MUFFE			
mm	bar	psi	bar	psi	bar	psi	bar	psi	kg	lbs	kg	lbs	kg	lbs
7	300	4350	1200	17400	1200	17400	600	8700	0,045	0,100	0,080	0,18	18	40,00
9	300	4350	1200	17400	1200	17400	600	8700	0,055	0,122	0,150	0,33	17	37,78
9	300	4350	1200	17400	1200	17400	600	8700	0,090	0,200	0,270	0,60	17	37,78
13	250	3625	1000	14500	1000	14500	400	5800	0,090	0,200	0,270	0,60	18	40,00
13	250	3625	1000	14500	1000	14500	400	5800	0,185	0,410	0,465	1,03	18	40,00
15	250	3625	1000	14500	900	13050	450	6525	0,185	0,410	0,465	1,03	20	44,44
17	250	3625	850	12325	920	13340	550	7975	0,270	0,600	0,720	1,60	25	55,56

TAPPI DI PROTEZIONE PARAPOLVERE PER INNESTI RAPIDI  
ANTI DUST CAPS FOR QUICK COUPLERS  
STAUBSCHUTZ FÜR SCHNELLKUPPLUNGEN

TAPPO FEMMINA  
FEMALE  
MUFFE



TAPPO MASCHIO  
MALE  
STECKER



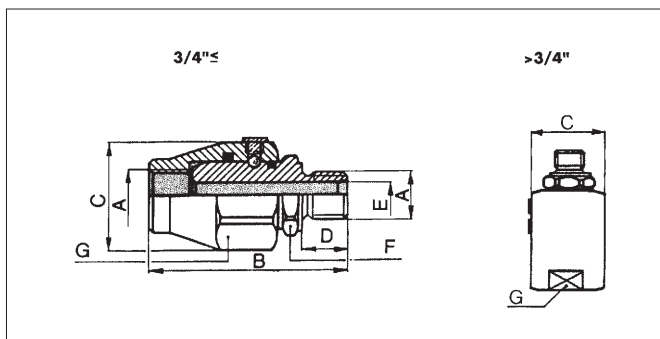
ART	DIMENSIONI DIMENSIONS DIMENSIONEN
IFTP14F	1/4"
IFTP38F	3/8"
IFTP12F	1/2"
IFTP34F	3/4"

ART	DIMENSIONI DIMENSIONS DIMENSIONEN
IFTP14M	1/4"
IFTP38M	3/8"
IFTP12M	1/2"
IFTP34M	3/4"



**GIUNTI GIREVOLI IN LINEA**  
**STRAIGHT SWIVELJOINTS**  
**DREHBARE KUPPLUNGSSTÜCK**

**SERIE HSJ10**  
**SERIES HSJ10**



ART	A	B	C	D	E	F	G	PRESSIONE MASSIMA IN ROTAZIONE MAX PRESSURE IN ROTATION		PRESSIONE MASSIMA STATICA STATIC MAX PRESSURE	
		mm	mm	mm	mm	mm	mm	bar	psi	bar	psi
<b>HSJ10-04</b>	1/4"	61	33	11	6,5	ES19	ES30	200	2900	400	5800
<b>HSJ10-06</b>	3/8"	66	37	14	9,0	ES24	ES34	200	2900	400	5800
<b>HSJ10-08</b>	1/2"	70	42	15	12,0	ES27	ES36	150	2175	300	4350
<b>HSJ10-12</b>	3/4"	79	50	19	16,0	ES34	ES45	150	2175	300	4350
<b>HSJ10-16</b>	1"	90	55	21	20,0	ES41	CH50	100	1450	300	4350
<b>HSJ10-20</b>	1"1/4	101	60	24	28,0	ES50	CH55	100	1450	300	4350
<b>HSJ10-24</b>	1"1/2	110	70	25	34,0	ES55	CH65	80	1160	300	4350
<b>HSJ10-32</b>	2"	118	85	27	44,0	ES65	CH75	50	725	250	3625
<b>HSJ10-40</b>	2"1/2	138	98	30	58,0	CH90	CH90	50	725	250	3625

**CARATTERISTICHE PRINCIPALI**

I giunti girevoli in linea serie HSJ10 trovano applicazione tra un tubo flessibile e una parte rigida per compensare torsioni e rotazioni occasionali. Il movimento del giunto sul proprio asse impedisce che il tubo si danneggi. La rotazione del giunto è imperniata su una o due corone di sfere radiali (una fino al 1/2" compreso).

- Guarnizioni standard in gomma nitrilica
- Temperature d'esercizio con guarnizioni standard: -20°C/+110°C
- Filettature standard: BSP (GAS)
- Materiali speciali a richiesta: AISI 303, AISI 316, Ottone
- Guarnizioni speciali a richiesta: Viton, EPDM, Silicone
- Filettature speciali a richiesta: NPTF, Metrica, UNF

Attenzione: i giunti SJ10 non sono idonei per rotazioni veloci e continuative.

**MAIN DATA**

The series HSJ10 swivel joints are designed to be mounted between a hose assembly and a rigid component in order to allow and compensate occasional rotations, preventing hose damages. the swivel joint rotation is based on one or two rows of radials balls (one row up to size 1/2" included).

- Standard seals in nitril rubber
- Working temperatures with standard seals: -20°C/+110°C
- Standard thread: BSP (GAS)
- Special materials on request: AISI 303, AISI 316, Brass
- Special seals on request: Viton, EPDM, Silicone
- Special thread on request: NPTF, Metric, UNF

Important: SJ10 series is not suitable for continuous or fast rotation.

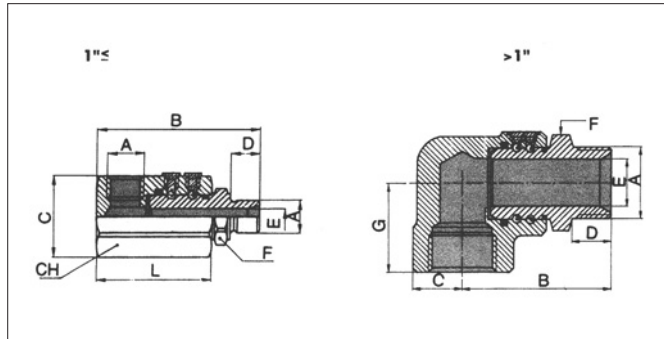
## GIUNTI GIREVOLI A 90°

## 90° SWIVELJOINTS

## DREHBARES KUPPLUNGSSTÜCK 90°

## SERIE HSJ90

## SERIES HSJ90



ART	A	B	C	D	E	F	G	CH	PRESSIONE MASSIMA IN ROTAZIONE MAX PRESSURE IN ROTATION		PRESSIONE MASSIMA STATICA STATIC MAX PRESSURE	
		mm	mm	mm	mm	mm	mm	mm	bar	psi	bar	psi
HSJ90-04	1/4"	69	30,5	11	6,5	ES19	58,0	ES30	200	2900	400	5800
HSJ90-06	3/8"	78	41,5	14	9,0	ES24	63,0	ES36	200	2900	400	5800
HSJ90-08	1/2"	86	44	15	12,0	ES27	68,5	ES38	150	2175	300	4350
HSJ90-12	3/4"	99	58	19	16,0	ES34	79,0	ES50	150	2175	300	4350
HSJ90-16	1"	113	60,0	21	20,0	ES41	90,0	Ø 60	100	1450	300	4350
HSJ90-20	1"1/4	92	31,5	24	28,0	ES50	56,5		100	1450	300	4350
HSJ90-24	1"1/2	104	38	25	34,0	ES55	62,0		80	1160	300	4350
HSJ90-32	2"	111	45	27	44,0	ES65	67,0		50	725	250	3625
HSJ90-40	2"1/2	135	55	30	58,0	CH80	83,0		50	725	250	3625

## CARATTERISTICHE PRINCIPALI

I giunti girevoli in linea serie HSJ90 trovano applicazione tra un tubo flessibile e una parte rigida per compensare torsioni e rotazioni occasionali. Il movimento del giunto sul proprio asse impedisce che il tubo si danneggi. La rotazione del giunto è impernata su una o due corone di sfere radiali (una fino al 1/2" compreso).

- Guarnizioni standard in gomma nitrilica
- Temperature d'esercizio con guarnizioni standard: -20°C/+110°C
- Filettature standard: BSP (GAS)
- Materiali speciali a richiesta: AISI 303, AISI 316, Ottone
- Guarnizioni speciali a richiesta: Viton, EPDM, Silicone
- Filettature speciali a richiesta: NPTF, Metrica, UNF

Attenzione: i giunti HSJ90 non sono idonei per rotazioni veloci e continuative.

## MAIN DATA

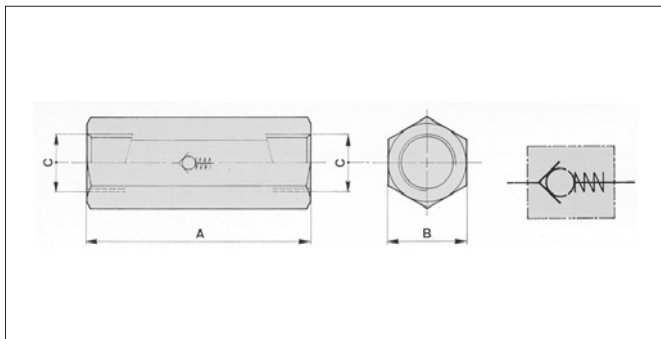
The series HSJ90 swivel joints are designed to be mounted between a hose assembly and a rigid component in order to allow and compensate occasional rotations, preventing hose damages. the swivel joint rotation is based on one or two rows of radials balls (one row up to size 1/2" included).

- Standard seals in nitril rubber
  - Working temperatures with standard seals: -20°C/+110°C
  - Standard thread: BSP (GAS)
  - Special materials on request: AISI 303, AISI 316, Brass
  - Special seals on request: Viton, EPDM, Silicone
  - Special thread on request: NPTF, Metric, UNF
- Important: HSJ90 series is not suitable for continuous or fast rotation.



**VALVOLA DI NON RITORNO**  
**IN LINE CHECK VALVE**  
**RÜCKSCHLAGVENTIL**

**SERIE HCV**  
**SERIES HCV**



ART	C*	MAX FLUSSO MAX FLOW MAX. DURCHSATZ	MAX PRESSIONE MAX PRESSURE MAX. BETRIEBSDRUCK		A	B
		l/min	bar	psi	mm	mm
HCV-04	1/4"	13	350	5000	60	19
HCV-06	3/8"	25	350	5000	70	24
HCV-08	1/2"	40	350	5000	76	30
HCV-12	3/4"	60	300	4300	92	36
HCV-16	1"	90	250	3600	108	45
HCV-20	1"1/4	160	250	3600	127	55
HCV-24	1"1/2	210	250	3600	142	65

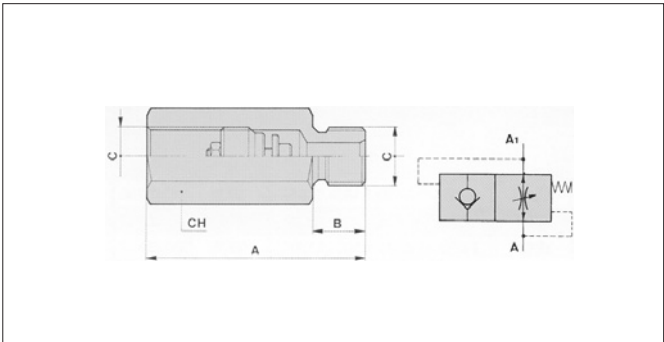
\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.

\*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.

\*Standardgewinde ist BSP (GAS), Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.

**VALVOLA DI SICUREZZA PER TUBAZIONI**  
**BURST HOSE VALVE**  
**LEISTUNGSSICHERH EITSVENTIL**

**SERIE HVPCC**  
**SERIES HVPCC**

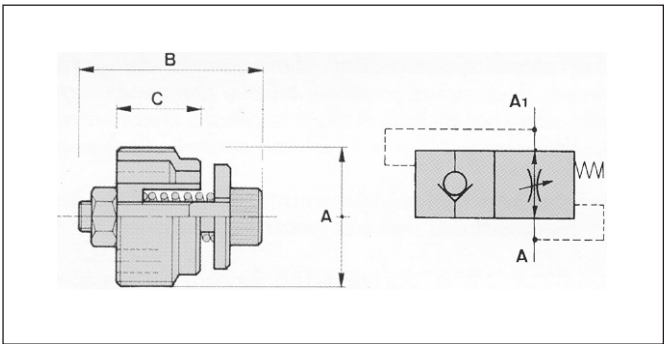


ART	C*	B	CH	A
		mm	mm	mm
HVPCC-04	1/4"	13	19	53
HVPCC-06	3/8"	13	22	55
HVPCC-08	1/2"	14	27	64
HVPCC-12	3/4"	15	36	67

\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.  
\*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.  
\*Standardgewinche ist BSP (GAS). Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.

**VALVOLA DI SICUREZZA A CARTUCCIA**  
**BURST HOSE CARTRIDGE VALVE**  
**EINSATZSICHERH EITSVENTIL**

**SERIE HCVP**  
**SERIES HCVP**

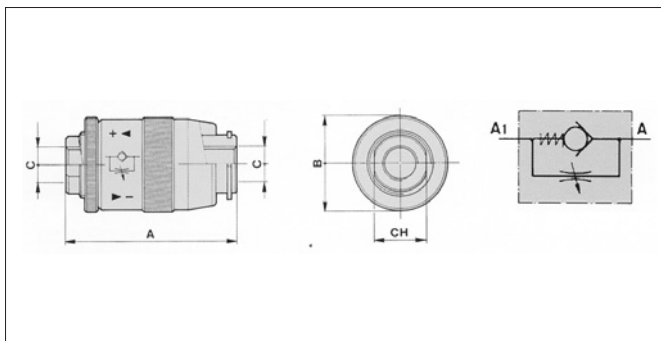


ART	A*	B	C
		mm	mm
HCVP-04	1/4"	19	8
HCVP-06	3/8"	23	10,5
HCVP-08	1/2"	29	13
HCVP-12	3/4"	34	18

\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.  
\*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.  
\*Standardgewinche ist BSP (GAS). Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.

**VALVOLE DI STROZZAMENTO**  
**TROTTL VALVE**  
**DROSSELRÜCKSCHLAGVENTIL**

**SERIE HVSU**  
**SERIES HVSU**



ART	C*	MAX FLUSSO MAX FLOW MAX. DURCHSATZ	MAX PRESSIONE MAX PRESSURE MAX. BETRIEBSDRUCK		A	B	CH
		l/min	bar	psi	mm	mm	mm
HVSU-04	1/4"	12	350	5000	62	34	19
HVSU-06	3/8"	30	350	5000	72	40	24
HVSU-08	1/2"	45	350	5000	80	46	30
HVSU-12	3/4"	85	300	4350	100	54	36
HVSU-16	1"	100	300	4350	115	66	41
HVSU-20	1"1/4	150	250	3600	135	82	55
HVSU-24	1"1/2	220	250	3600	150	93	60

\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.

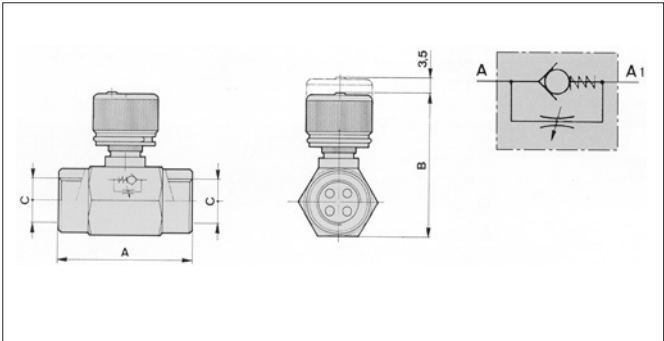
\*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.

\*Standardgewinde ist BSP (GAS), Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.



## REGOLATORE DI FLUSSO UNIDIREZIONALE UNIDIRECTIONAL FLOW REGULATOR EINSEITIGES FLUSSREGELVENTIL

SERIE HVRX  
SERIES HVRX

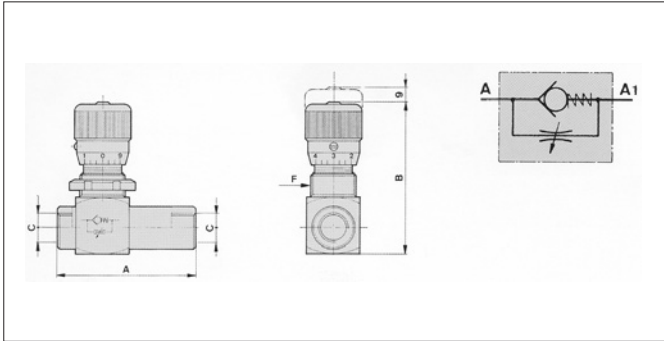


ART	C*	MAX FLUSSO MAX FLOW MAX. DURCHSATZ	MAX PRESSIONE MAX PRESSURE MAX. BETRIEBSDRUCK		A	B
		l/min	bar	psi	mm	mm
HVRX-04	1/4"	12	300	4350	54	64
HVRX-06	3/8"	25	300	4350	62	64
HVRX-08	1/2"	40	280	4000	62	64

\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.  
 \*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.  
 \*Standardgewinde ist BSP (GAS), Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.

## REGOLATORE DI FLUSSO UNIDIREZIONALE UNI-DIRECTIONAL FLOW REGULATOR EINSEITIGES FLUSSREGELVENTIL

SERIE HVRU  
SERIES HVRU

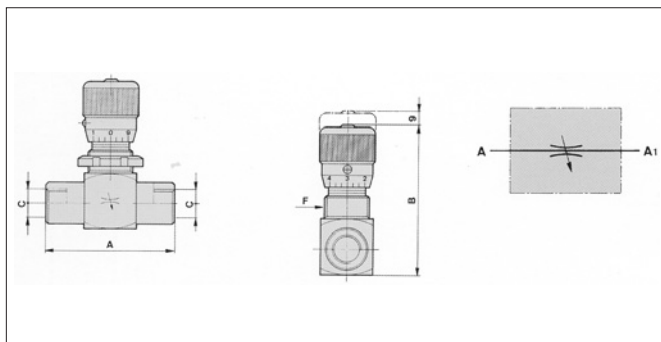


ART	C*	MAX FLUSSO MAX FLOW MAX. DURCHSATZ	MAX PRESSIONE MAX PRESSURE MAX. BETRIEBSDRUCK		A	B	F
		l/min	bar	psi	mm	mm	
HVRU-04	1/4"	12	350	5000	72	80	M20X1
HVRU-06	3/8"	30	350	5000	78	85	M25X1,5
HVRU-08	1/2"	45	350	5000	92	92	M30X1,5
HVRU-12	3/4"	85	300	4350	106	105	M35X1,5

\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.  
 \*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.  
 \*Standardgewinde ist BSP (GAS), Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.

**REGOLATORE DI FLUSSO BIDIREZIONALE**  
**BI-DIRECTIONAL FLOW REGULATOR**  
**BEIDSEITIGES FLUSSREGELVENTIL**

SERIE HVRB  
 SERIES HVRB



ART	C*	MAX FLUSSO MAX FLOW MAX. DURCHSATZ	MAX PRESSIONE MAX PRESSURE MAX. BETRIEBSDRUCK		A	B	F
		l/min	bar	psi	mm	mm	
HVRB-04	1/4"	12	350	5000	45	80	M20X1
HVRB-06	3/8"	30	350	5000	52	85	M25X1,5
HVRB-08	1/2"	45	350	5000	60	92	M30X1,5
HVRB-12	3/4"	85	300	4350	68	105	M35X1,5

\*Filettature standard BSP (GAS). Disponibili a richiesta filettature metriche, NPTF, SAE e UNF.

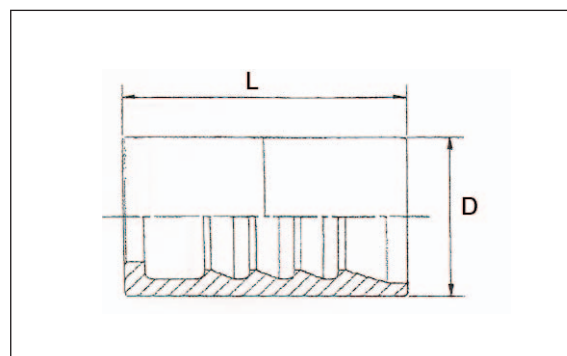
\*Standard thread is BSP (GAS). Available threads on request: metric, NPTF, SAE and UNF.

\*Standardgewinde ist BSP (GAS), Erhältlich auf Anfrage: Gewinde metrisch NPTF, SAE und UNF.

**BOCCOLA A PRESSARE PER SAE 100 R1A - DIN 200221ST**  
**BUSHING FOR HYDRAULIC HOSES (TO BE PRESSED)**  
**SCHLAUCHHÜLSEN ZUM PRESSEN**

SERIE HSOO1A  
 SERIES HSOO1A

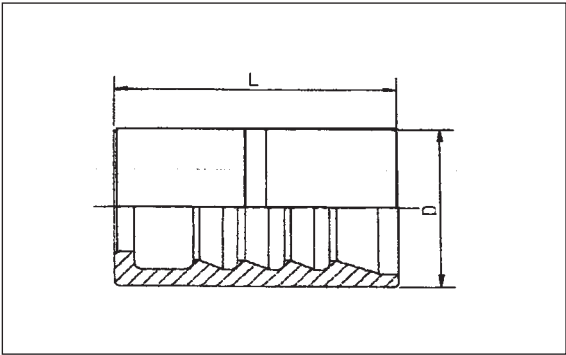
ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS	
	DN	INCH	SIZE	ØD	L mm
HSOO1A-04	6	1/4"	04	20	30,2
HSOO1A-05	8	5/16"	05	22	30,5
HSOO1A-06	10	3/8"	06	24	32
HSOO1A-08	12	1/2"	08	28,5	35
HSOO1A-10	16	5/8"	10	32	37
HSOO1A-12	20	3/4"	12	36	43
HSOO1A-16	25	1"	16	43	50
HSOO1A-20	32	1"1/4	20	52	57
HSOO1A-24	38	1"1/2	24	57	76
HSOO1A-32	50	2"	32	70	78



**BOCCOLA A PRESSARE PER SAE 100 R2A - DIN 20022 2ST**  
**BUSHING FOR HYDRAULIC HOSES (TO BE PRESSED)**  
**SCHLAUCHHÜLSEN ZUM PRESSEN**

SERIE HSOO2A  
SERIES HSOO2A

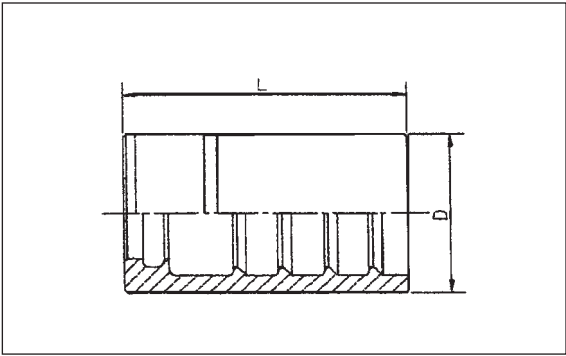
ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS	
	DN	INCH	SIZE	ØD	L mm
HSOO2A-04	6	1/4"	04	21	30,2
HSOO2A-05	8	5/16"	05	24	30,5
HSOO2A-06	10	3/8"	06	25,5	32
HSOO2A-08	12	1/2"	08	30	35
HSOO2A-10	16	5/8"	10	33	37
HSOO2A-12	20	3/4"	12	38	43
HSOO2A-16	25	1"	16	46	50
HSOO2A-20	32	1"1/4	20	56	59
HSOO2A-24	38	1"1/2	24	62	76
HSOO2A-32	50	2"	32	75	79



**BOCCOLA A PRESSARE PER SAE 100 R1AT - R2AT - 1STN/25N**  
**BUSHING FOR HYDRAULIC HOSES (TO BE PRESSED)**  
**SCHLAUCHHÜLSEN ZUM PRESSEN**

SERIE HSX03T  
SERIES HSX03T

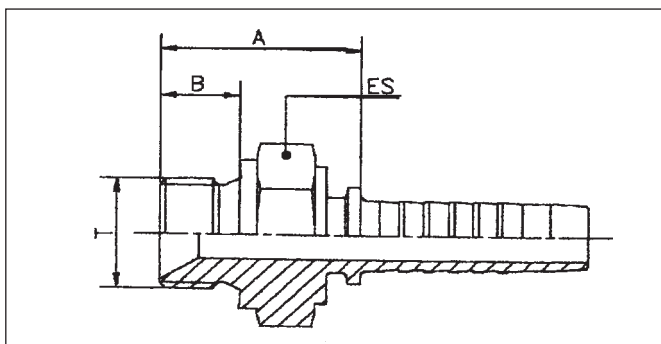
ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS	
	DN	INCH	SIZE	ØD	L mm
HSX03T-04	6	1/4"	04	23	30,5
HSX03T-05	8	5/16"	05	24	30,5
HSX03T-06	10	3/8"	06	25,5	32
HSX03T-08	12	1/2"	08	28	34
HSX03T-10	16	5/8"	10	32	37
HSX03T-12	20	3/4"	12	35	42,5
HSX03T-16	25	1"	16	48	48,3
HSX03T-20	32	1"1/4	20	59	59
HSX03T-24	38	1"1/2	24	67	70
HSX03T-32	50	2"	32	79,5	79,5





**RACCORDO MASCHIO BSP SEDE CONICA 60°**  
**STRAIGHT MALE THREADED FITTING 60°**  
**GEWINDEZAPFEN BSP 60°**

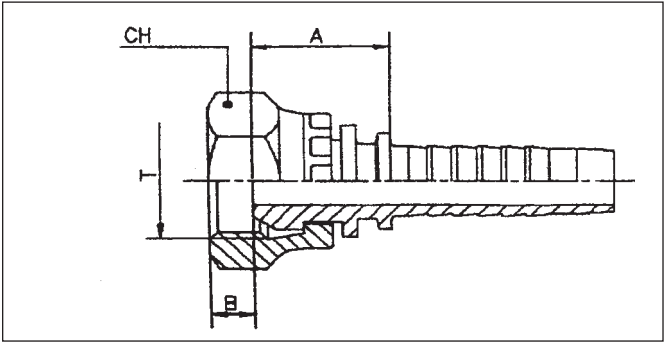
SERIE HMB10B



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	ES
HMB10B-04-02	6	1/4"	04	1/8"-28	21,5	8	14
HMB10B-04-04	6	1/4"	04	1/4"-19	26	11	19
HMB10B-04-06	6	1/4"	04	3/8"-19	28,5	12	22
HMB10B-04-08	6	1/4"	04	1/2"-14	32	14	27
HMB10B-05-04	8	5/16"	05	1/4"-19	25	11	19
HMB10B-05-06	8	5/16"	05	3/8"-19	28,5	12	22
HMB10B-05-08	8	5/16"	05	1/2"-14	33,5	14	27
HMB10B-06-04	10	3/8"	06	1/4"-19	25	11	19
HMB10B-06-06	10	3/8"	06	3/8"-19	28,5	12	22
HMB10B-06-08	10	3/8"	06	1/2"-14	33,5	14	27
HMB10B-08-06	12	1/2"	08	3/8"-19	28	12	22
HMB10B-08-08	12	1/2"	08	1/2"-14	32	15	27
HMB10B-08-10	12	1/2"	08	5/8"-14	33,5	16	27
HMB10B-08-12	12	1/2"	08	3/4"-14	33	16,5	32
HMB10B-10-08	16	5/8"	10	1/2"-14	30,5	14	27
HMB10B-10-10	16	5/8"	10	5/8"-14	31	16	30
HMB10B-10-12	16	5/8"	10	3/4"-14	32	16,5	32
HMB10B-12-12	20	3/4"	12	3/4"-14	34,5	16,5	32
HMB10B-12-16	20	3/4"	12	1"-11	39,5	19	41
HMB10B-16-16	25	1"	16	1"-11	40,5	19,5	41
HMB10B-16-20	25	1"	16	1 1/4"-11	47	21,5	50
HMB10B-20-20	32	1 1/4"	20	1 1/4"-11	48,5	21,5	50
HMB10B-24-24	38	1 1/2"	24	1 1/2"-11	48,5	21,5	55
HMB10B-32-32	50	2"	32	2"-11	55	26	70

RACCORDO FEMMINA BSP 60° (DADO PINZATO)  
STRAIGHT FEMALE 60°  
DICHTKEGEL BSP 60°

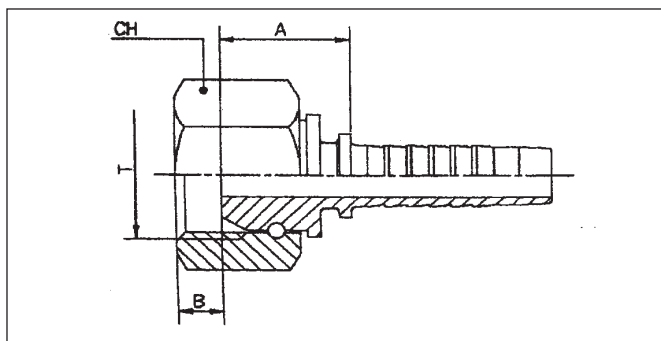
SERIE HFB11B



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	CH
HFB11B-04-04	6	1/4"	04	1/4"-19	17,5	4	19
HFB11B-04-06	6	1/4"	04	3/8"-19	18	6	22
HFB11B-05-06	8	5/16"	05	3/8"-19	18	6	22
HFB11B-05-08	8	5/16"	05	1/2"-14	20,5	7	27
HFB11B-06-06	10	3/8"	06	3/8"-19	18	6	22
HFB11B-06-08	10	3/8"	06	1/2"-14	19,5	7	27
HFB11B-08-06	12	1/2"	08	3/8"-19	19,5	6	22
HFB11B-08-08	12	1/2"	08	1/2"-14	20	7	27
HFB11B-08-10	12	1/2"	08	5/8"-14	18	9,5	27
HFB11B-08-12	12	1/2	08	3/4"-14	22,5	9	32
HFB11B-10-10	16	5/8"	10	5/8"-14	18	9,5	27
HFB11B-10-12	16	5/8"	10	3/4"-14	21,5	9	32
HFB11B-12-12	20	3/4"	12	3/4"-14	22	9	32

**RACCORDO FEMMINA BSP 60° (DADO SPINATO)****STRAIGHT FEMALE 60°****DICHTKEGEL BSP 60°**

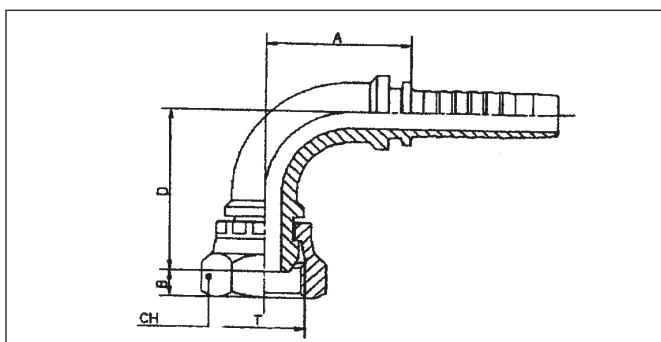
SERIE HFB12B



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	CH
HFB12B-12-16	20	3/4"	12	1"-11	27	10,5	38
HFB12B-16-16	25	1"	16	1"-11	28	10,5	38
HFB12B-16-20	25	1"	16	1"1/4-11	33,5	10	50
HFB12B-20-20	32	1"1/4	20	1"1/4-11	35	10	50
HFB12B-20-24	32	1"1/4	20	1"1/2-11	35	12	55
HFB12B-24-24	38	1"1/2	24	1"1/2-11	35	12	55
HFB12B-32-32	50	2"	32	2"-11	35	16	70

**RACCORDO FEMMINA 90° BSP CONO 60° (DADO PINZATO)****STRAIGHT FEMALE 90° BSP 60° CONE STAPLING NUT****DICHTKEGEL 60° BSP 90°**

SERIE HFB91B

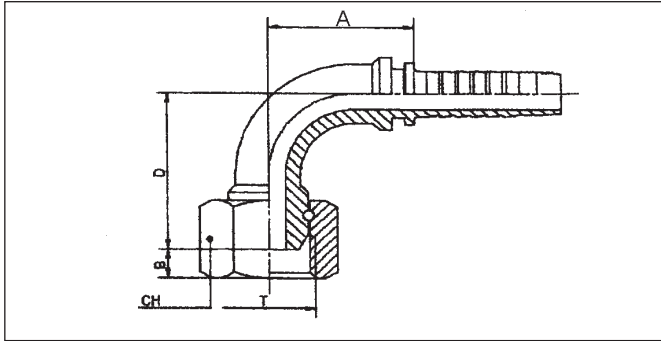


ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFB91B-04-04	6	1/4"	04	1/4"-19	30,5	4	32	19
HFB91B-04-06	6	1/4"	04	3/8"-19	34,5	6	35,5	22
HFB91B-05-06	8	5/16"	05	3/8"-19	30	6	36	22
HFB91B-06-06	10	3/8"	06	3/8"-19	32,5	6	36	22
HFB91B-06-08	10	3/8"	06	1/2"-14	35,5	7	42	27
HFB91B-08-08	12	1/2"	08	1/2"-14	40,5	7	44	27
HFB91B-10-10	16	5/8"	10	5/8"-14	46,5	9,5	49	27
HFB91B-10-12	16	5/8"	10	3/4"-14	49,5	9	51	32
HFB91B-12-12	20	3/4"	12	3/4"-14	50	9	57	32



**RACCORDO FEMMINA 90° BSP CONO 60° (DADO PINZATO)****STRAIGHT FEMALE 90° BSP 60° CONE STAPLING NUT****DICHTKEGEL 60° BSP 90°**

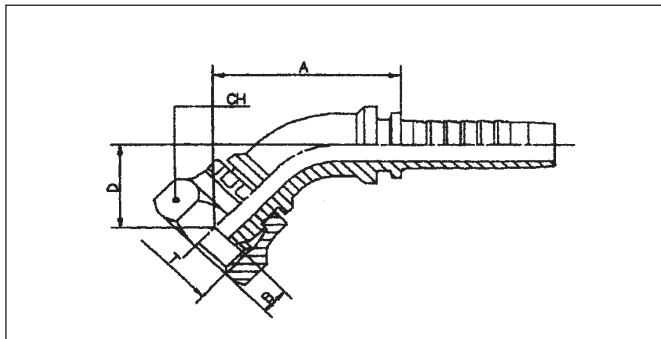
SERIE HFB92B



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFB92B-16-16	25	1"	16	1"-11	66,5	10,5	67	38
HFB92B-16-20	25	1"	16	1"1/4-11	66,5	10	77	50
HFB92B-20-20	32	1"1/4	20	1"1/4-11	80	10	88	50
HFB92B-20-24	32	1"1/4	20	1"1/2-11	103	12	102	55
HFB92B-24-24	38	1"1/2	24	1"1/2-11	101	12	108	55
HFB92B-32-32	50	2"	32	2"-11	132	16	128	70

**RACCORDO FEMMINA 45° BSP CONO 60° (DADO PINZATO)****STRAIGHT FEMALE 45° BSP 60° CONE STAPLING NUT****DICHTKEGEL 60° BSP 45°**

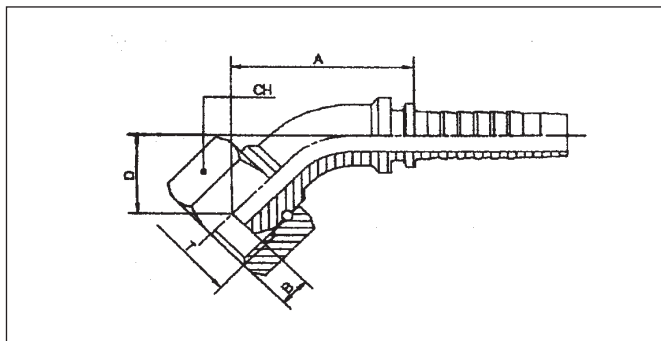
SERIE HFB91B



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFB41B-04-04	6	1/4"	04	1/4"-19	39,5	4	17	19
HFB41B-04-06	6	1/4"	04	3/8"-19	42,5	6	19	22
HFB41B-05-06	8	5/16"	05	3/8"-19	42,5	6	19	22
HFB41B-06-06	10	3/8"	06	3/8"-19	46,5	6	19	22
HFB41B-06-08	10	3/8"	06	1/2"-14	49,5	7	19	27
HFB41B-08-08	12	1/2"	08	1/2"-14	52,5	7	25	27
HFB41B-10-10	16	5/8"	10	5/8"-14	62,5	9,5	26	27
HFB41B-10-12	16	5/8"	10	3/4"-14	62,5	9	29	32
HFB41B-12-12	20	3/4"	12	3/4"-14	68,5	9	31	32

**RACCORDO FEMMINA 45° BSP CONO 60° (DADO PINZATO)**  
**STRAIGHT FEMALE 45° BSP 60° CONE STAPLING NUT**  
**DICHTKEGEL 60° BSP 45°**

SERIE HFB42B

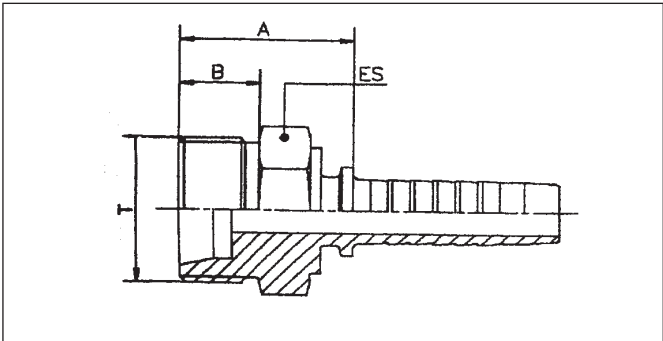


ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFB42B-16-16	25	1"	16	1"-11	86,5	10,5	37	38
HFB42B-16-20	25	1"	16	1"1/4-11	85,5	10	37,5	50
HFB42B-20-20	32	1"1/4	20	1"1/4-11	105	10	49	50
HFB42B-20-24	32	1"1/4	20	1"1/2-11	122	12	54	55
HFB42B-24-24	38	1"1/2	24	1"1/2-11	122	12	54	55
HFB42B-32-32	50	2"	32	2"-11	154	16	68	70

MASCHIO METRICO SERIE LEGGERA SEDE CONICA 24° - DIN 3863 DKOL  
METRIC MALE LIGHT SERIES CONICAL SEAT 24° DIN 3863 DKOL  
GEWINDEZAPFEN 24°, DIN 3863, LEICHTE REIHE, METRISCH DKOL

SERIE HML10B

L



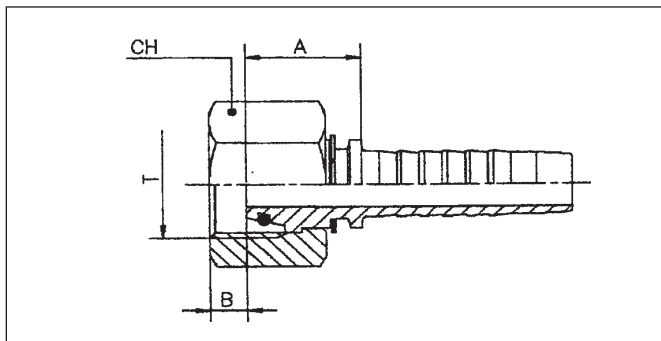
ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	ES
HML10B-04-12	6	1/4"	04	M12X1,5	22,5	10	14
HML10B-04-14	6	1/4"	04	M14X1,5	22,5	10	14
HML10B-04-16	6	1/4"	04	M16X1,5	24,5	11	17
HML10B-05-16	8	5/16"	05	M16X1,5	25	11	17
HML10B-05-18	8	5/16"	05	M18X1,5	25	11	19
HML10B-06-16	10	3/8"	06	M16X1,5	24,5	11	17
HML10B-06-18	10	3/8"	06	M18X1,5	25	11	19
HML10B-06-22	10	3/8"	06	M22X1,5	26	12	22
HML10B-08-18	12	1/2"	08	M18X1,5	24	11	19
HML10B-08-22	12	1/2"	08	M22X1,5	27	12	22
HML10B-08-26	12	1/2"	08	M26X1,5	26,5	12	27
HML10B-10-26	16	5/8"	10	M26X1,5	29	12	27
HML10B-12-30	20	3/4"	12	M30X2	31,5	14	30
HML10B-16-36	25	1"	16	M36X2	33,5	14	36
HML10B-20-45	32	1"1/4	20	M45X2	41	16	46
HML10B-24-52	38	1"1/2	24	M52X2	41	16	55



**RACCORDO FEMMINA METRICO SERIE LEGGERA SEDE CONICA 24° - DIN 3863 - DKOL**  
**FEMALE METRIC CONNECTION LIGHT SERIES CONICAL SEAT 24° - DIN 3863 - DKOL**  
**DICHTKEGEL DIN 24° - DIN 3863 - LEICHTE REIHE, METRISCH DKOL**

SERIE HFL13B

L

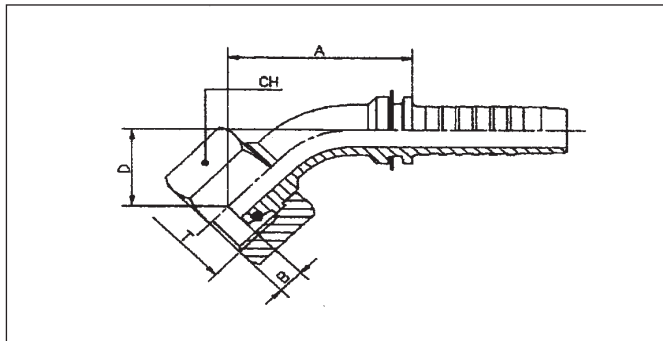


ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	CH
HFL13B-04-12	6	1/4"	04	M12X1,5	24	2	17
HFL13B-04-14	6	1/4"	04	M14X1,5	24	1,5	17
HFL13B-04-16	6	1/4"	04	M16X1,5	26,5	1,5	19
HFL13B-05-16	8	5/16"	05	M16X1,5	26,5	1,5	19
HFL13B-05-18	8	5/16"	05	M18X1,5	26,5	1,5	22
HFL13B-06-16	10	3/8"	06	M16X1,5	27,5	1,5	22
HFL13B-06-18	10	3/8"	06	M18X1,5	26	1,5	22
HFL13B-06-22	10	3/8"	06	M22X1,5	27,5	2,5	27
HFL13B-08-22	12	1/2"	08	M22X1,5	28	2,5	27
HFL13B-10-26	16	5/8"	10	M26X1,5	29	2	32
HFL13B-12-30	20	3/4"	12	M30X2	31,5	3,5	36
HFL13B-16-36	25	1"	16	M36X2	33,5	3,5	41
HFL13B-20-45	32	1"1/4	20	M45X2	39,5	2	50
HFL13B-24-52	38	1"1/2	24	M52X2	39,5	3	60

RACCORDO FEMMINA 45° METRICA SERIE LEGGERA CONO 24° CON "O" RING DIN 3865 DKOL  
FEMALE METRIC CONNECTION 45° LIGHT SERIES CONICAL SEAT 24° WITH "O" RING DIN 3865 DKOL  
DICHTKEGEL DIN 24° DKOL 45° MIT "O" RING, LEICHTE REIHE, METRISCH DIN 3865

SERIE HFL43B

L

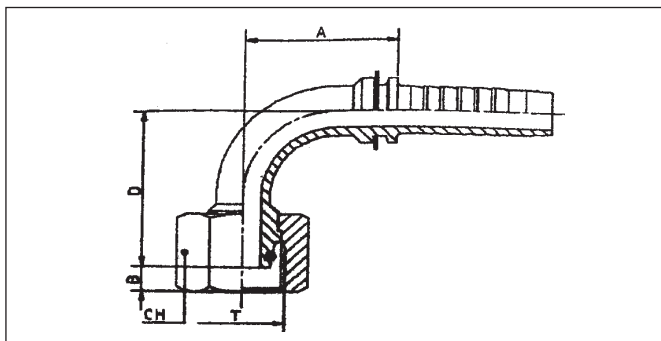


ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFL43B-04-14	6	1/4"	04	M14X1,5	38,5	1,5	17,5	17
HFL43B-04-16	6	1/4"	04	M16X1,5	41	1,5	17,5	19
HFL43B-05-16	8	5/16"	05	M16X1,5	41,5	1,5	19	19
HFL43B-06-18	10	3/8"	06	M18X1,5	46,5	1,5	19	22
HFL43B-08-22	12	1/2"	08	M22X1,5	51,5	2,5	21,5	27
HFL43B-10-26	16	5/8"	10	M26X1,5	59,5	2	27,5	32
HFL43B-12-30	20	3/4"	12	M30X2	63,5	3,5	28	36
HFL43B-16-36	25	1"	16	M36X2	84	3,5	36,5	41
HFL43B-20-45	32	1"1/4	20	M45X2	103	2	45	50
HFL43B-24-52	38	1"1/2	24	M52X2	122	3	59	60

**RACCORDO FEMMINA 90° METRICA SERIE LEGGERA CONO 24° CON "O" RING DIN 3865 DKOL**  
**FEMALE METRIC CONNECTION 90° LIGHT SERIES WITH "O" RING DIN 3865 DKOL**  
**DICHTKEGEL 24° DKOL 90° MIT "O" RING DIN 3865, LEICHTE REIHE METRISCH**

SERIE HFL933B

L



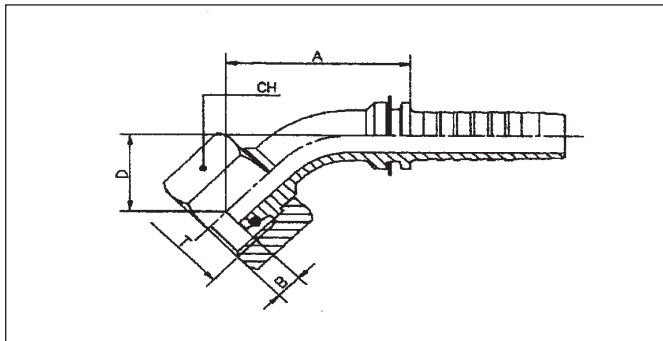
ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFL93B-04-14	6	1/4"	04	M14X1,5	28,5	1,5	32	17
HFL93B-04-16	6	1/4"	04	M16X1,5	31,5	1,5	32	19
HFL93B-05-16	8	5/16"	05	M16X1,5	31,5	1,5	35,5	19
HFL93B-05-18	8	5/16"	05	M18X1,5	32,5	1,5	37	22
HFL93B-06-18	10	3/8"	06	M18X1,5	32	1,5	39	22
HFL93B-08-22	12	1/2"	08	M22X1,5	45,5	2,5	45	27
HFL93B-10-26	16	5/8"	10	M26X1,5	51,5	2	54	32
HFL93B-12-30	20	3/4"	12	M30X2	60	3,5	56,5	36
HFL93B-16-36	25	1"	16	M36X2	76,5	3,5	75	41
HFL93B-20-45	32	1"1/4	20	M45X2	86	2	82	50
HFL93B-24-52	38	1"1/2	24	M52X2	97	3	95	60



RACCORDO FEMMINA 45° METRICA SERIE PESANTE CONO 24° CON "O" RING DIN 3865 DKOS  
FEMALE METRIC CONNECTION 45° HEAVY SERIES CONICAL SEAT 24° WITH "O" RING DIN 3865 DKOS  
DICHTKEGEL DKOS 45° MIT "O" RING DIN 3865 SCHWERE REIHE

SERIE HFS43B

S

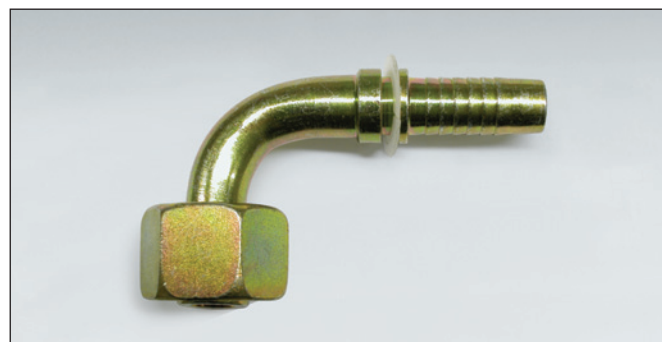
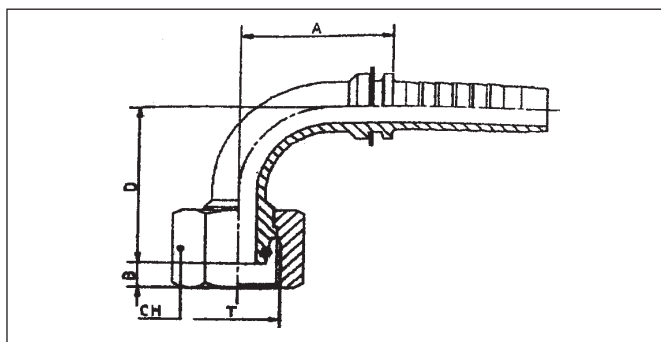


ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFS43B-04-16	6	1/4"	04	M16X1,5	40,5	2,5	16,5	19
HFS43B-04-18	6	1/4"	04	M18X1,5	42,5	2	17	22
HFS43B-05-20	8	5/16"	05	M20X1,5	44	2	21,5	24
HFS43B-06-20	10	3/8"	06	M20X1,5	46	2	21,5	24
HFS43B-06-22	10	3/8"	06	M22X1,5	53	4	22	27
HFS43B-08-24	12	1/2"	08	M24X1,5	54,5	3	23	30
HFS43B-10-30	16	5/8"	10	M30X2	59	3,5	26	36
HFS43B-12-30	20	3/4"	12	M30X2	79	3,5	33,5	36
HFS43B-12-36	20	3/4"	12	M36X2	79	3	33,5	46
HFS43B-16-36	25	1"	16	M36X2	89	3	33,5	46
HFS43B-16-42	25	1"	16	M42X2	84,5	6	34	50
HFS43B-20-42	32	1"1/4	20	M42X2	103	6	48	50
HFS43B-20-52	32	1"1/4	20	M52X2	99,5	6,5	42,5	60
HFS43B-24-52	38	1"1/2	24	M52X2	122	6,5	50	60

**RACCORDO FEMMINA 45° METRICA SERIE PESANTE CONO 24° CON "O" RING DIN 3865 DKOS**  
**FEMALE METRIC CONNECTION 45° HEAVY SERIES CONE 24° WITH "O" RING DIN 3865 DKOS**  
**DICHTKEGEL DIN 24° DKOS 45° MIT "O" RING SCHWERE REIHE DIN 3865**

**S**

SERIE HFS93B

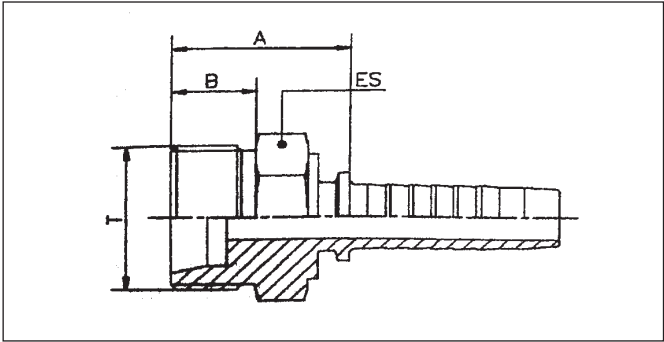


ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)				
	DN	INCH	SIZE	T	A	B	D	CH
HFS93B-04-16	6	1/4"	04	M16X1,5	28,5	2,5	32	19
HFS93B-04-18	6	1/4"	04	M18X1,5	33	2	33,5	22
HFS93B-05-20	8	5/16"	05	M20X1,5	35	2	36,5	24
HFS93B-06-20	10	3/8"	06	M20X1,5	32	2	39	24
HFS93B-06-22	10	3/8"	06	M22X1,5	34	4	41	27
HFS93B-08-24	12	1/2"	08	M24X1,5	43,5	3	46	30
HFS93B-10-30	16	5/8"	10	M30X2	52	3,5	53,5	36
HFS93B-12-30	20	3/4"	12	M30X2	65	3,5	65	36
HFS93B-12-36	20	3/4"	12	M36X2	61,5	3	66,5	46
HFS93B-16-36	25	1"	16	M36X2	69,5	3	78	46
HFS93B-16-42	25	1"	16	M42X2	69,5	6	78	50
HFS93B-20-42	32	1"1/4	20	M42X2	83	6	85	50
HFS93B-20-52	32	1"1/4	20	M52X2	83	6,5	82,5	60
HFS93B-24-52	38	1"1/2	24	M52X2	104	6,5	94	60

RACCORDO MASCHIO METRICO SERIE PESANTE SEDE CONICA 24° - DIN 3861 - DKOS  
MALE METRIC CONNECTION HEAVY SERIES CONE 24° DIN 3861 DKOS  
GEWINDEZAPFEN 24° DIN 3861 DKOS SCHWERE REIHE

SERIE HMS10B

S



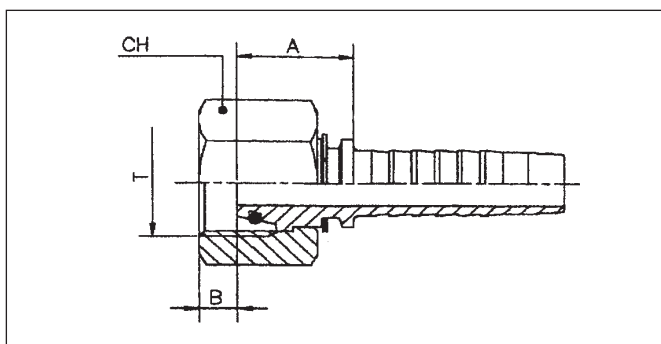
ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	ES
HMS10B-04-14	6	1/4"	04	M14X1,5	20,5	10	14
HMS10B-04-16	6	1/4"	04	M16X1,5	26	12	17
HMS10B-04-18	6	1/4"	04	M18X1,5	26	12	19
HMS10B-04-20	6	1/4"	04	M20X1,5	26	12	22
HMS10B-05-18	8	5/16"	05	M18X1,5	26	12	19
HMS10B-05-20	8	5/16"	05	M20X1,5	26	12	22
HMS10B-06-18	10	3/8"	06	M18X1,5	26	12	19
HMS10B-06-20	10	3/8"	06	M20X1,5	26	12	22
HMS10B-06-22	10	3/8"	06	M22X1,5	28	14	22
HMS10B-06-24	10	3/8"	06	M24X1,5	26,5	14	24
HMS10B-08-24	12	1/2"	08	M24X1,5	29	14	24
HMS10B-10-30	16	5/8"	10	M30X2	33	16	30
HMS10B-12-30	20	3/4"	12	M30X2	33,5	16	30
HMS10B-12-36	20	3/4"	12	M36X2	36,5	18	36
HMS10B-16-36	25	1"	16	M36X2	37,5	18	36
HMS10B-16-42	25	1"	16	M42X2	40,5	20	43
HMS10B-20-52	32	1 1/4"	20	M52X2	46	22	55
HMS10B-24-52	38	1 1/2"	24	M52X2	47	22	55



**RACCORDO FEMMINA METRICO SERIE PESANTE SEDE CONICA 24° CON O'RING - DIN 3865 DKOS**  
**FEMALE METRIC CONNECTION HEAVY SERIES CONICAL SEAT 24° WITH "O"RING DIN 3865 DKOS**  
**DICHTKEGEL 24° DKOS MIT "O"RING DIN 3865 SCHWERE REIHE**

SERIE HFS13B

S



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	CH
HFS13B-04-16	6	1/4"	04	M16X1,5	25,5	2,5	19
HFS13B-04-18	6	1/4"	04	M18X1,5	28	2	22
HFS13B-05-20	8	5/16"	05	M20X1,5	28,5	2	24
HFS13B-06-20	10	3/8"	06	M20X1,5	28,5	2	24
HFS13B-06-22	10	3/8"	06	M22X1,5	31,5	4	27
HFS13B-08-24	12	1/2"	08	M24X1,5	32	3	30
HFS13B-10-30	16	5/8"	10	M30X2	36	3,5	36
HFS13B-12-30	20	3/4"	12	M30X2	36,5	3,5	36
HFS13B-12-36	20	3/4"	12	M36X2	39,5	3	46
HFS13B-16-36	25	1"	16	M36X2	40,5	3	46
HFS13B-16-42	25	1"	16	M42X2	43	6	50
HFS13B-20-42	32	1 1/4"	20	M42X2	35	6	50
HFS13B-20-52	32	1 1/4"	20	M52X2	48	6,5	60
HFS13B-24-52	38	1 1/2"	24	M52X2	48	6,5	60

**NIPPLERIA**

**NIPPLES**

**NIPPEL**

**NIPPLO MASCHIO SVASATO X MASCHIO CIL. SVASATO GAS**

**NIPPLES MALE+BSP MALE**

**DOPPELSTUTZEN**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HNM04M04	NIPPLES M+M 1/4
HNM06M06	NIPPLES M+M 3/8
HNM08M08	NIPPLES M+M 1/2
HNM10M10	NIPPLES M+M 5/8
HNM12M12	NIPPLES M+M 3/4
HNM16M16	NIPPLES M+M 1



## NIPPLERIA

## NIPPLES

## NIPPEL

## NIPPLO MASCHIO + MASCHIO METRICO

## NIPPLES MALE+METRIC MALE

## DOPPELSTUTZEN METRISCH

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HNM54M54	NIPPLES M+M 14X1,5
HNM56M56	NIPPLES M+M 16X1,5
HNM58M58	NIPPLES M+M 18X1,5
HNM60M60	NIPPLES M+M 20X1,5
HNM62M62	NIPPLES M+M 22X1,5



## ADATTATORE FEMMINA GIREVOLE SEDE OGIVA X FEMMINA GIREVOLE SEDE OGIVA METRICA

## NIPPLES FEMALE+METRIC FEMALE

## NIPPEL MUFFE-MUFFE METRISCH

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HAF54F54	NIPPLES F+F 14X1,5 GIR. DIR.
HAF56F56	NIPPLES F+F 16X1,5 GIR. DIR.
HAF58F58	NIPPLES F+F 18X1,5 GIR. DIR.
HAF60F60	NIPPLES F+F 20X1,5 GIR. DIR.



## PASSAPARETE MASCHIO CILINDRICO SVASATO X MASCHIO CILINDRICO SVASATO GAS-METRICO CONTRODADO GAS PER PASSAPARETE-METRICO

## NIPPLES MALE LONG CYLINDRICAL FLARING FOR MALE CYLINDRICAL FLARING GAS-METRIC LOCK-NUT

## WANDEINSATZ-NIPPEL

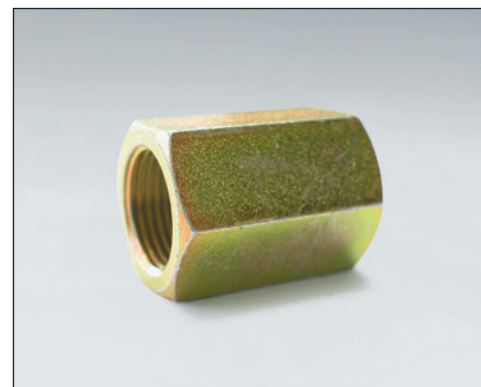
ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HPM04M04	NIPPLES M+M 1/4 PASS.
HPM06M06	NIPPLES M+M 3/8 PASS.
HPM08M08	NIPPLES M+M 1/2 PASS.
HPM12M12	NIPPLES M+M 3/4 PASS.



**NIPPLERIA**  
**NIPPLES**  
**NIPPEL**

**PROLUNGA GAS**  
**EXTENSION FEMALE**  
**VERLÄNGERUNGSGSTÜCK**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HPGF04F04	PROLUNGA F+F 1/4
HPGF06F06	PROLUNGA F+F 3/8
HPGF08F08	PROLUNGA F+F 1/2
HPGF12F12	PROLUNGA F+F 3/4



**NIPPLA RIDUZIONE MASCHIO CILINDRICO SVASATO GAS + MASCHIO CILINDRICO SVASATO METRICO**  
**NIPPLES REDUCTION MALE CYLINDRICAL FLARING GAS + CYLINDRICAL FLARING METRIC MALE**  
**REDUZIERT-DOPPELSTUTZEN**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HNRM04M02	RID. M1/4+M1/8
HNRM06M04	RID. MM3/8X1/4
HNRM08M04	RID. MM1/2X1/4
HNRM08M06	RID. MM1/2X3/8
HNRM12M06	RID. MM3/4X3/8
HNRM12M10	RID. MM3/4X5/8
HNRM16M08	RID. MM1X1/2
HNRM16M12	RID. MM1X3/4"



**NIPPLA RIDUZIONE MASCHIO GAS + MASCHIO METRICO**  
**REDUCTION MALE BSP+METRIC MALE**  
**REDUZIERT-DOPPELSTUTZEN METRISCH**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HNRM04M54	RID. MM1/4X14X1,5
HNRM04M56	RID. MM1/4X16X1,5
HNRM04M58	RID. MM1/4X18X1,5
HNRM06M54	RID. MM3/8X14X1,5
HNRM06M56	RID. MM3/8X16X1,5
HNRM06M58	RID. MM3/8X18X1,5
HNRM06M62	RID. MM3/8X22X1,5
HNRM08M54	RID. MM1/2X14X1,5
HNRM08M56	RID. MM1/2X16X1,5
HNRM08M58	RID. MM1/2X18X1,5
HNRM08M60	RID. MM1/2X20X1,5
HNRM08M62	RID. MM1/2X22X1,5
HNRM58M54	RID. MM18X1,5X14X1,5





## NIPPLERIA

## NIPPLES

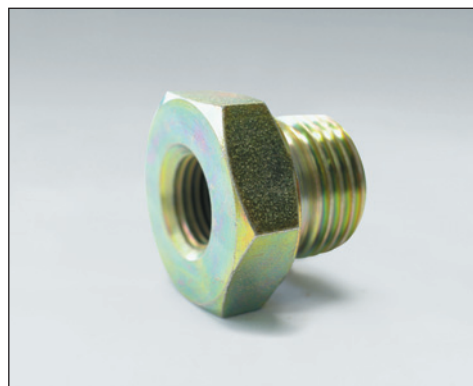
## NIPPEL

## TAPPO DI RIDUZIONE GAS/GAS

## REDUCTION MALE+CAP BSP FEMALE

## REDUZIERUNGSSTÖPSEL

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HTRM06F04	TAPPO RID. M3/8F1/4
HTRM08F04	TAPPO RID. M1/2F1/4
HTRM08F06	TAPPO RID. M1/2F3/8
HTRM12F06	TAPPO RID. M3/4F3/8
HTRM12F08	TAPPO RID. M3/4+F1/2



## PROLUNGHE DI RIDUZIONE

## REDUCTION FOR TENSION MALE+FEMALE

## REDUZIERUNGSTÜCK

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HPRM04F06	PROL.M1/4F3/8
HPRM04F08	PROL.M1/4F1/2
HPRM06F08	PROL.M3/8F1/2
HPRM08F06	PROL.M1/2F3/8
HPRM08F12	PROL.M1/2F3/4
HPRM12F16	PROL.M3/4F1
HPRM08F58	PROL.M1/2F18X1,5
HPRM62F08	PROL.M22 1,5F1/2



## MEZZO NIPPLO MASCHIO CILINDRICO SVASATO GAS

## 1/2 NIPPLES BSP CYLINDRICAL FLARING GAS

## NIPPEL ZUM SCHWEISSEN

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HMN0804	1/2 NIPPLO 1/4 SALDARE
HMN0806	1/2 NIPPLO 3/8 SALDARE
HMN0808	1/2 NIPPLO 1/2 SALDARE
HMN0812	1/2 NIPPLO 3/4 SALDARE



## MEZZO NIPPLO MASCHIO METRICO

## 1/2 NIPPLES METRIC MALE

## NIPPEL ZUM SCHWEISSEN METRISCH

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HMN58	1/2 NIPPLO 18X1,5 SALDARE



**NIPPLERIA**  
**NIPPLES**  
**NIPPEL**

**TAPPO MASCHIO CILINDRICO GAS**  
**PLUG BSP CYLINDRICAL MALE**  
**SECHSKANTIGER STÖPSEL**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HTM04	TAPPO M1/4
HTM06	TAPPO M3/8
HTM08	TAPPO M1/2
HTM12	TAPPO M3/4



**TAPPO MASCHIO METRICO**  
**PLUG METRIC MALE**  
**SECHSKANTIGER STÖPSEL METRISCH**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HTM54	TAPPO M14X1,5
HTM56	TAPPO M16X1,5
HTM58	TAPPO M18X1,5
HTM60	TAPPO M20X1,5
HTM62	TAPPO M22X1,5



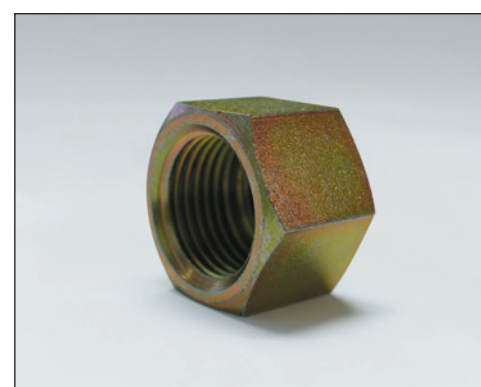
**NIPPLO MASCHIO CILINDRICO SVASATO GAS X JIC 74° E METRICO X JIC 74°**  
**CYLINDRICAL FLARING NIPPLES MALE - METRIC JIC 74° GAS - METRIC FOR JIC 74° BSP**  
**DOPPELSTUTZEN JIC 74° UND GAS**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HNMJ3404	RID. 9/16 JICX1/4
HNMJ1204	RID. 3/4 JICX1/4
HNMJ3406	RID. 9/16 JICX3/8
HNMJ1206	RID. 3/4 JICX3/8
HNMJ1201	RID. M 3/4 JIC M 1/2
HNMJ3512	RID. M 1X3/16 JIC M 3/4
HNMJ3612	RID. 1X1/16 JICX3/4



**TAPPO FEMMINA GAS**  
**BSP PLUG FEMALE**  
**DREHBARER MUFFE STÖPSEL GAS**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HTF04	TAPPO F1/4
HTF06	TAPPO F3/8
HTF08	TAPPO F1/2



## NIPPLERIA

## NIPPLES

## NIPPEL

TAPPO FEMMINA SEDE OGIVA METRICA CON DADO GIREVOLE

PLUG FEMALE METRIC OGIVE SEAT METRIC WITH SWIVEL NUT

DREHBAHRE STÖPSEL METRISCH

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HTF54	TAPPO FG14X1,5
HTF56	TAPPO FG16X1,5
HTF58	TAPPO FG18X1,5
HTF62	TAPPO FG22X1,5



BULLONE CAVO DOPPIO METRICO

BOLT FOR DOUBLE METRIC BANJO

DOPPEL-HOHLSCHRAUBEN

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HBCD54	BULLONE FOR. 14X1,5 DOPPIO
HBCD56	BULLONE FOR. 16X1,5 DOPPIO
HBCD58	BULLONE FOR. 18X1,5 DOPPIO

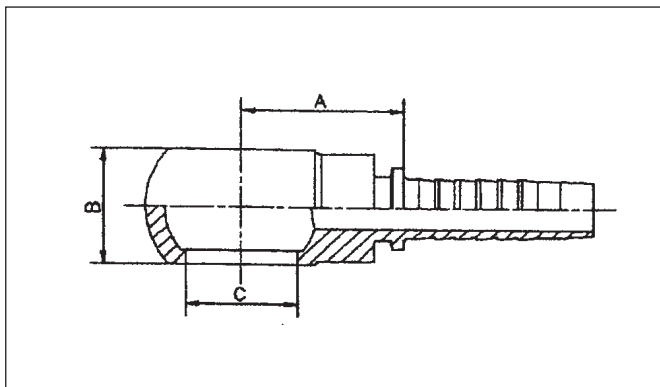




**NIPPLERIA**  
**NIPPLES**  
**NIPPEL**

**SERIE HBB10B**

**RACCORDO BANJO BSP**  
**BANJO CONNECTION BSP**  
**RINGANSCHLUSS**



ART	Ø TUBO HOSE BORE			DIMENSIONI DIMENSIONS (mm)			
	DN	INCH	SIZE	T	A	B	C
HBB10B-04-02	6	1/4"	04	1/8"-19	22	10	1/8"
HBB10B-04-04	6	1/4"	04	1/4"-19	22	14	1/4"
HBB10B-04-06	6	1/4"	04	3/8"-19	23	18	3/8"
HBB10B-05-06	8	5/16"	05	3/8"-19	23	18	3/8"
HBB10B-06-06	10	3/8"	06	3/8"-19	24	18	3/8"
HBB10B-06-08	10	3/8"	06	1/2"-14	26	22	1/2"
HBB10B-08-08	12	1/2"	08	1/2"-14	27	22	1/2"
HBB10B-10-10	16	5/8"	10	5/8"-14	28	24	5/8"
HBB10B-12-12	20	3/4"	12	3/4"-14	36,5	29	3/4"
HBB10B-16-16	25	1"	16	1"-11	44,5	37	1"

**OCCHIO A TASCA A SALDARE METRICO**  
**WELDABLE METRIC EYE**  
**RINGLOT STÜCKE ZUM SCHWEISSEN METRISCH**

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
FLVOT1410	OCCHIO A SALDARE D.14X10
FLVOT1612	OCCHIO A SALDARE D.16X12



## NIPPLERIA

## NIPPLES

## NIPPEL

## OCCHIO A TASCA A SALDARE GAS

## WELDABLE BSP BANJO EYE

## RINGLÖTSTÜCKE ZUM SCHWEISSEN GAS

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
FLVOTG1410	OCCHIO A SALDARE D. 1/4X10
FLVOTG3810	OCCHIO A SALDARE D. 3/8X10
FLVOTG3812	OCCHIO A SALDARE D. 3/8X12
FLVOTG1214	OCCHIO A SALDARE D. 1/2X14
FLVOTG1215	OCCHIO A SALDARE D. 1/2X15
FLVOTG1216	OCCHIO A SALDARE D. 1/2X16



## OCCHIO CON FILETTO GAS

## THREADED BSP EYE

## RINGSTÜCKE MIT EINSCHRAUBGEWINDE GAS

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
FLVOF0404	OCCHIO FILETTATO 1/4X1/4
FLVOF0606	OCCHIO FILETTATO 3/8X3/8
FLVOF0806	OCCHIO FILETTATO 1/2X3/8
FLVOF0808	OCCHIO FILETTATO 1/2X1/2



## OCCHIO CON FILETTO METRICO

## METRIC THREADED EYE

## RINGSTÜCKE MIT EINSCHRAUBGEWINDE METRISCH

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
FLVOF54	OCCHIO FILETTATO D. 14X14X1,5
FLVOF56	OCCHIO FILETTATO D. 16X16X1,5
FLVOF58	OCCHIO FILETTATO D. 18X18X1,5



## CURVA 90° MASCHIO CILINDRICO SVASATO X FEMMINA GIREVOLE SEDE OGIVA GAS

## ELBOW MALE 90° CYLINDRICAL FLARING FOR FEMALE SWIVELLING OGIVE SEAT BSP

## 90° BOGEN BSP GAS

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HC90M04F04	CURVA 90° M+F1/4
HC90M06F06	CURVA 90° M+F3/8
HC90M08F08	CURVA 90° M+F1/2
HC90M12F12	CURVA 90° M+F3/4



## NIPPLERIA

## NIPPLES

## NIPPEL

CURVA 90° MASCHIO CILINDRICO SVASATO X FEMMINA GIREVOLE SEDE OGIVA METRICO

ELBOW MALE 90° CYLINDRICAL FLARING FOR SWIVELLING FEMALE OGIVE METRIC SEAT

90° BOGEN BSP METRISCH

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HC90M54F54	CURVA 90° M+F14X1,5
HC90M58F58	CURVA 90° M+F18X1,5
HC90M62F62	CURVA 90° M+F22X1,5



CURVA 90° FEMMINA GIREVOLE SEDE OGIVA X FEMMINA GIREVOLE SEDE OGIVA GAS

ELBOW FEMALE 90° SWIVELLING OGIVE SEAT FOR FEMALE SWIVELLING OGIVE SEAT BSP

90° BOGEN BSP

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HC90F04F04	CURVA 90° F+F1/4 GIREVOLE
HC90F06F06	CURVA 90° F+F3/8 GIREVOLE
HC90F08F08	CURVA 90° F+F1/2



CURVA 45° MASCHIO CILINDRICO SVASATO X FEMMINA GIREVOLE SEDE OGIVA GAS

ELBOW MALE 45° CYLINDRICAL FLARING FOR SWIVELLING FEMALE OGIVE SEAT BSP

WINKELVERSCHRAUBUNG

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HC45M04F04	CURVA 45° M+F1/4
HC45M06F06	CURVA 45° M+F3/8
HC45M08F08	CURVA 45° M+F1/2
HC45M12F12	CURVA 45° M+F3/4



CURVA 90° FEMMINA GIREVOLE SEDE OGIVA METRICA X FEMMINA GIREVOLE SEDE OGIVA METRICA

ELBOW FEMALE 90° SWIVELLING OGIVE SEAT METRIC FOR FEMALE SWIVELLING OGIVE SEAT METRIC

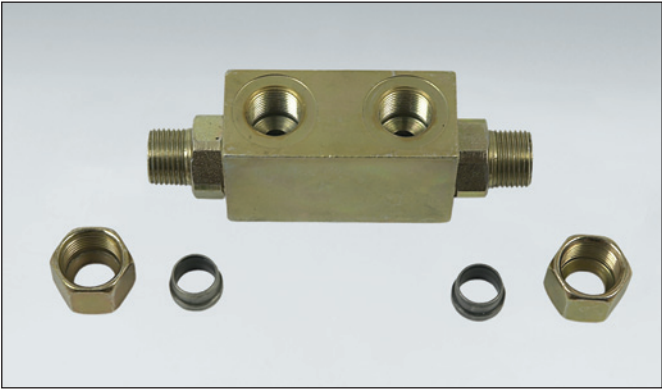
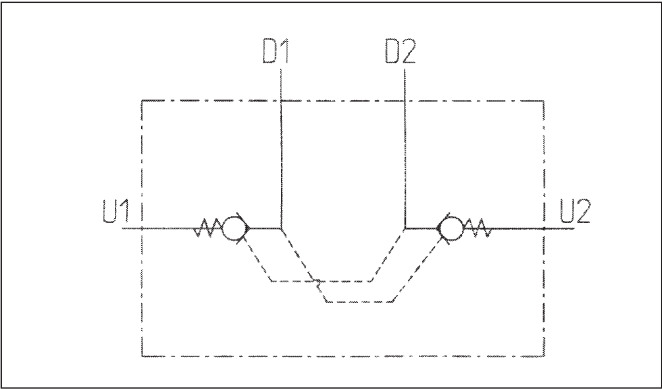
WINKELVERSCHRAUBUNG

ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HC90F54F54	CURVA 90° F+F14X1,5 GIREVOLE
HC90F56F56	CURVA 90° F+F16X1,5 GIREVOLE
HC90F58F58	CURVA 90° F+F18X1,5



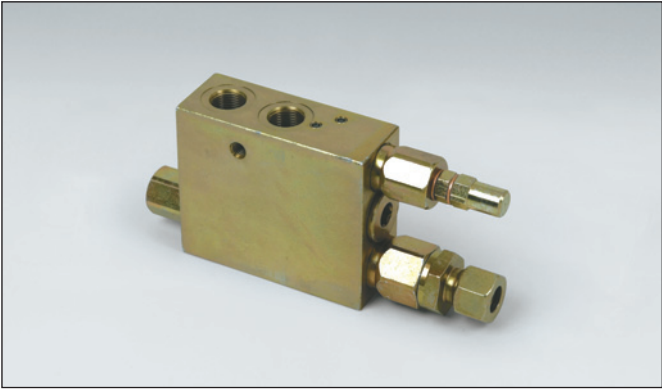
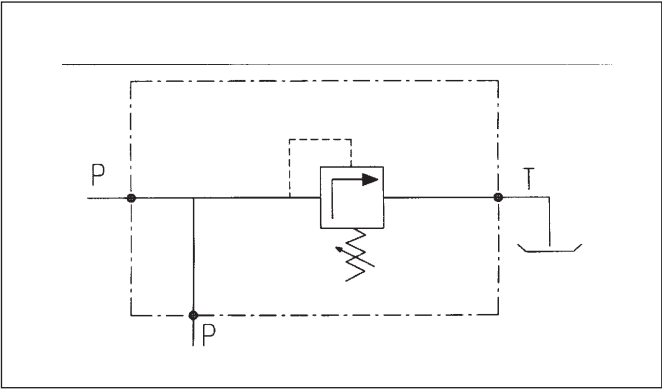


**VALVOLA DI BLOCCO PILOTATA A DOPPIO EFFETTO**  
**DOUBLE VALVES**  
**DOPPELWIRKENDES SPERRVENTIL**



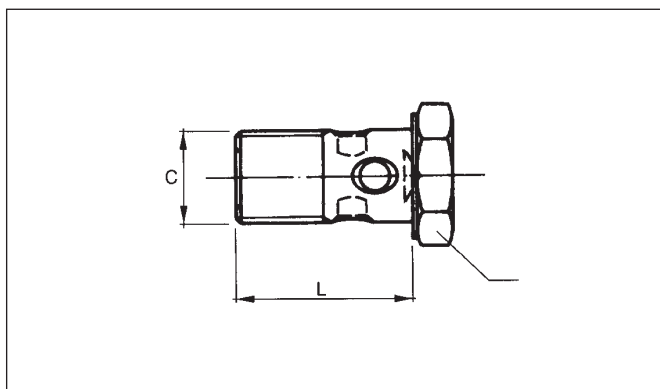
ART	APPLICAZIONI APPLICATIONS ANWENDUNG
FLVB38	3/8 CON RACCORDI / WITH COUPLINGS 3/8 / MIT NIPPELANSCHLÜSSEN 3/8
FLVBC	3/8 CON TUBO E RACCORDI L=520 mm WITH PIPES AND COUPLINGS 3/8 / MIT ROHRLEITUNG UND NIPPELANSCHLÜSSEN 3/8

**VALVOLA PER RIBALTAMENTO ARATRO**  
**VALVES FOR PLOUGH OVERTURNING**  
**PFLUGWENDEVENTIL**



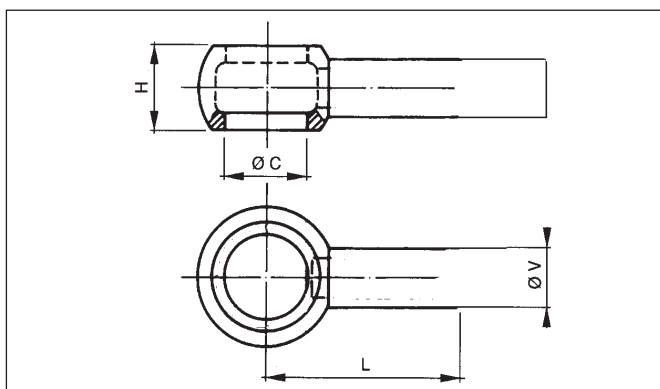
ART	APPLICAZIONI APPLICATIONS ANWENDUNG
VRAP6080DE	PER CILINDRI / FOR CYLINDERS / FÜR ZYLINDER 60/80
VRAP80100DE	PER CILINDRI / FOR CYLINDERS / FÜR ZYLINDER 80/100

**VITE FORATA**  
**PLOUGS FOR SWIVEL RINGS**  
**HOHLSCHRAUBEN**



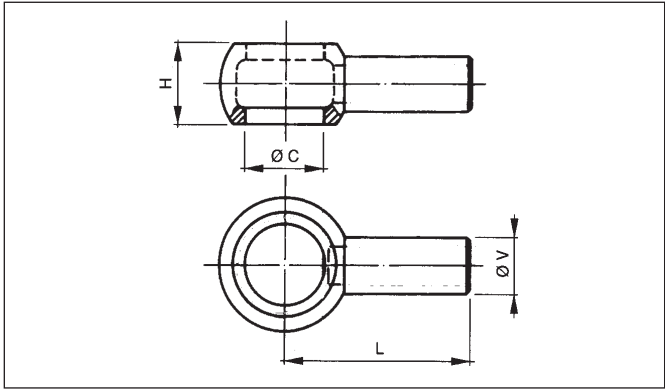
ART	C	L	A
FLV1350	G 1/4	28	19
FLV1360	G 3/8	31	22
FLV1370	G 1/2	38	27
FLV1390	M14X1,5	26	19
FLV1380	M18X1,5	36	24

**OCCHIO MEDIO E OCCHIO LUNGO**  
**MEDIUM AND LONG EYE CONNECTION**  
**RINGSTÜCK MIT ROHR - MITTEL + LANG**



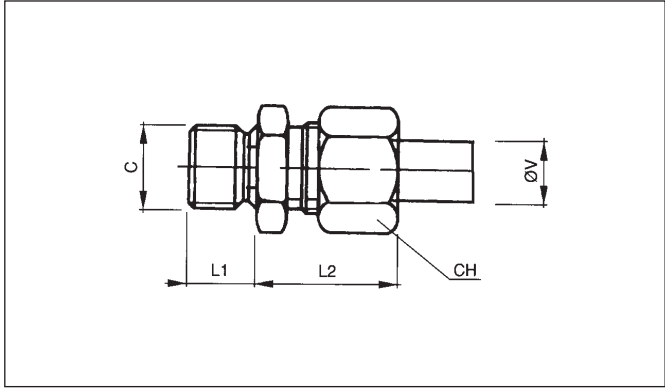
ART	TIPO TYPE TYP	L mm	Ø C mm	Ø V mm	H mm
FLV1200	1/4	112	13,3	12	14,5
FLV1210	3/8	106	17	12	17
FLV1220	1/2	109	21,2	15	22
FLV1230	1/8	107	18,3	12	20
FLV1240	1/4	205	13,3	12	14,5
FLV1250	3/8	199	17	12	17
FLV1260	1/2	202	21,2	15	22
FLV1270	1/8	200	18,3	12	20

**OCCHIO CORTO**  
**SHORT EYE CONNECTION**  
**RINGSTÜCK KURZ**



ART	TIPO TYPE TYP	L mm	Ø C mm	Ø V mm	H mm
FLV1150	1/4	38	13,3	12	14,5
FLV1160	3/8	40	17	12	17
FLV1170	1/2	44	21,2	15	22
FLV1190	1/8	42	18,3	12	20

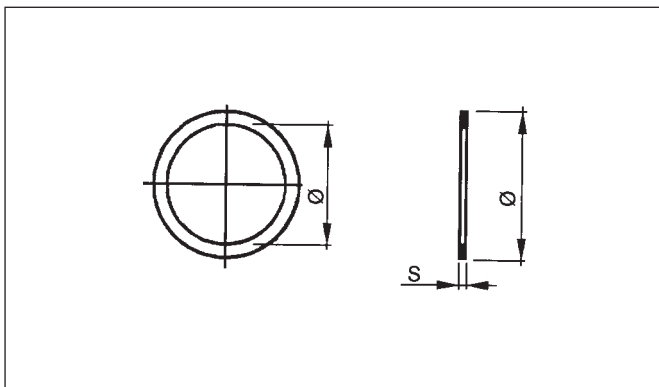
**NIPPLO CON OGIVA**  
**NIPPLES WITH OGIVE**  
**NIPPEL MIT SPITZBOGEN**



ART	TIPO TYPE TYP	C	Ø V	L1	L2	CH
FLV1120	1/4X12	1/4	12	11	28	22
FLV1110	3/8X12	3/8	12	13	28	22
FLV1130	1/2X12	1/2	12	14	31	22
FLV1140	1/2X15	1/2	15	13	34	27

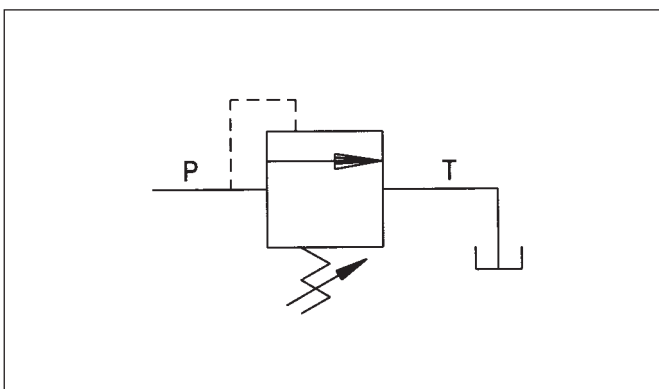


**RONDELLE IN RAME PER RACCORDI OLEODINAMICI**  
**COPPER WASHER FOR HYDRAULIC FITTINGS**  
**KUPFERDICHTUNGEN**



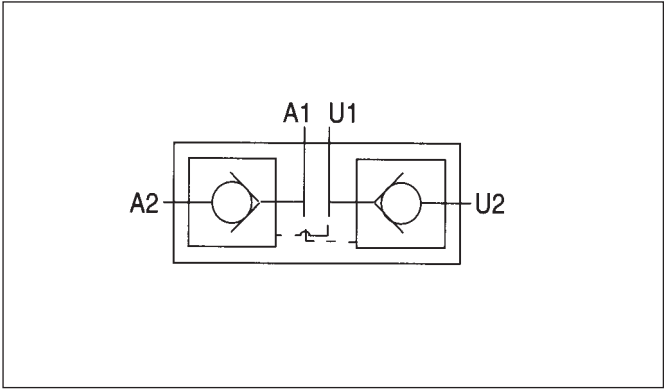
ART	ØA	ØB	S
FLRON14	1/4	19	1,5
FLRON38	3/8	23	1,5
FLRON12	1/2	27	1,5
FLRON34	3/4	35	1,5
FLRON10	1	41	1,5

**VALVOLA DI MASSIMA PRESSIONE AD AZIONE DIRETTA**  
**RELIEF VALVE - DIRECT ACTING TYPE**  
**HOCHDRUCKVENTIL - DIREKTWIRKEND**



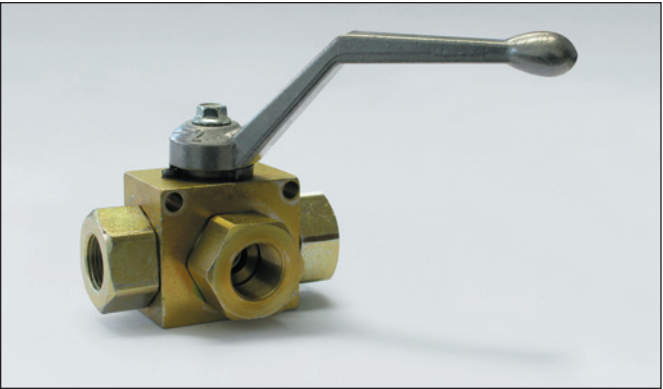
ART	FILETTATURA THREAD GEWINDE	PORTATA MAX MAX FLOW MAX DURCHFLOSS LEISTUNG	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK
	BSP	l/min.	bar
HVDM3538	3/8	30	350
HVDM3512	1/2	30	350
HVDM8012	1/2	80	250
HVDM8034	3/4	80	250

VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO SENZA OGIVA  
DUAL PILOT OPERATED CHECK VALVE WITHOUT OGIVE  
RÜCKSCHLAGVENTIL DOPPEL WIRKEND OHNE SPITZBOGEN



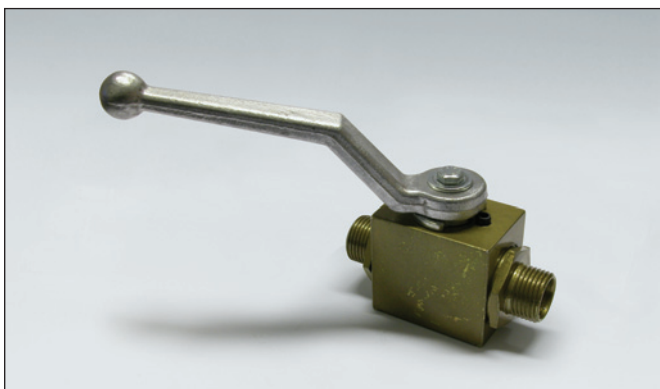
ART	FILETTATURA THREAD GEWINDE	PORTATA MAX MAX FLOW MAX DUICHFLUSS LEISTUNG	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK
	BSP	l/min.	bar
HVRDE001	1/4	20	300
HVRDE015	3/8	20	300
HVRDE002	3/8	50	300
HVRDE025	1/2	80	250
HVRDE003	3/4	120	250

RUBINETTI A SFERA 2-3 VIE  
2-3 WAYS BALL TAPS  
2-3 WEGE-HOCHDRUCK-KUGELHAHN



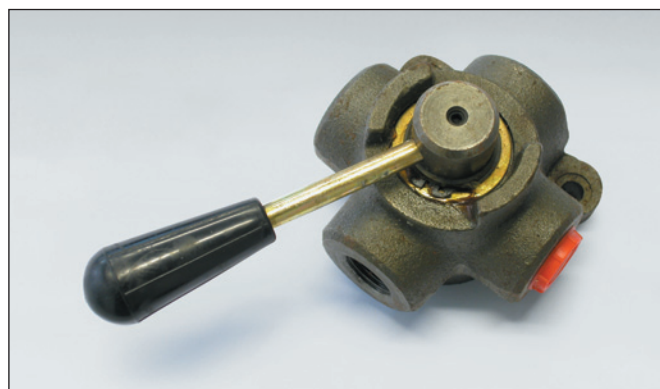
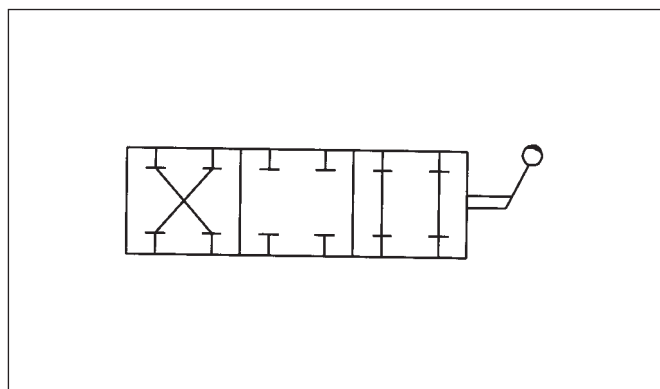
ART	ATTACCHI CONNECTIONS ANSCHLUSS GEWINDE	VIE WAYS WEBE	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK
			bar
HDRT214	1/4"	2	500
HDRT238	3/8"	2	500
HDRT212	1/2"	2	500
HDRT14	1/4"	3	500
HDRT38	3/8"	3	500
HDRT12	1/2"	3	500

**RUBINETTI A SFERA 2-3 VIE SERIE LEGGERA CON FILETTO ESTERNO**  
**2-3 WAYS BALL TAPS LIGHT SERIES WITH EXTERNAL THREAD**  
**2-3 WEGE-HOCHDRUCK-KUGELHAHN LEICHTE REIHE**



ART	ATTACCHI CONNECTIONS ANSCHLUSS GEWINDE	VIE WAYS WEBE	PRESSIONE MAX bar MAX PRESSURE bar BETRIEBSDRUCK bar
HDRT21225	M12X1,5	2	500
HDRT21415	M14X1,5		500
HDRT21615	M16X1,5	2	500
HDRT21815	M18X1,5	2	500
HDRT22215	M22X1,5	2	500
HDRT22615	M26X1,5	2	500
HDRT1225	M12X1,5	3	500
HDRT1415	M14X1,5	3	500
HDRT1615	M16X1,5	3	500
HDRT1815	M18X1,5	3	500
HDRT2215	M22X1,5	3	500
HDRT2615	M26X1,5	3	500

**DISTRIBUTORE DI FLUSSO A 4 VIE**  
**4 WAYS DIVERTER FLOW**  
**4-WEGE-UMSCHALTHAHN**



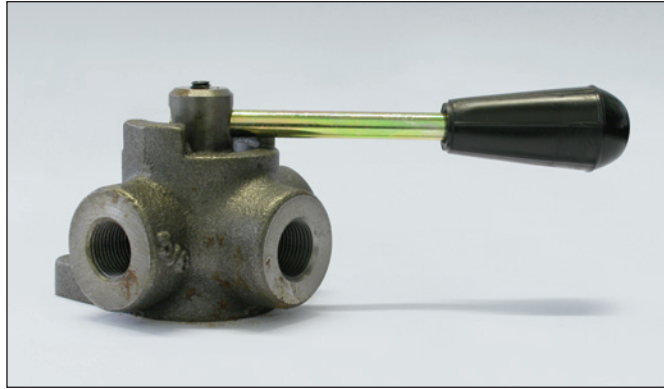
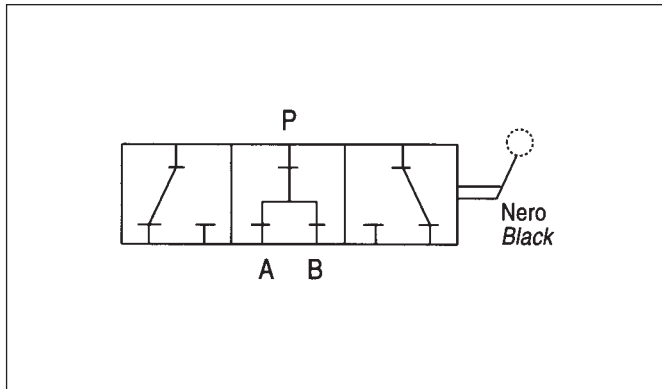
ART	ATTACCHI CONNECTIONS ANSCHLUSS GEWINDE	PORTATA MAX MAX FLOW MAX DUICHFLUSS LEISTUNG	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK
		l/min.	bar
HDD438	3/8"	35	250
HDD412	1/2"	50	250
HDD434	3/4"	90	220

Utilizzati come semplici distributori per azionare attuatori doppio effetto.

Diverter flow is used to connect or to take out inlet flow towards two ports. This hydraulic scheme is able to control a double action actuator. Iron steel body, hardened spindle.



## DISTRIBUTORE DI FLUSSO A 3 VIE 3 WAYS DIVERTER FLOW 3-WEGE-UMSCHALTHAHN

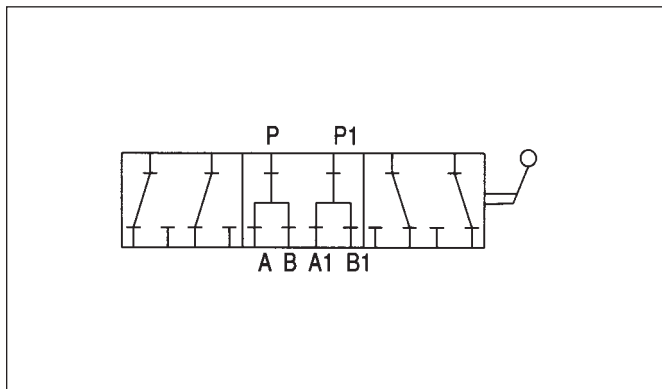


ART	ATTACCHI CONNECTIONS ANSCHLUSS GEWINDE	PORTATA MAX MAX FLOW MAX DUICHFLUSS LEISTUNG	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK
		l/min.	bar
HDD338	3/8"	60	315
HDD312	1/2"	90	280
HDD334	3/4"	120	250
HDD310	1"	180	250

Utilizzati per collegare o escludere il flusso verso due utilizzi usando una sola alimentazione. Corpo in ghisa, componenti in acciaio.

Diverter flow is used to connect or to take out inlet flow towards two ports. This hydraulic scheme is able to control a single action actuator. Iron steel body, hardened spindle.

## DISTRIBUTORE DI FLUSSO A 6 VIE 6 WAYS DIVERTER FLOW 6-WEGE-UMSCHALTHAHN



ART	ATTACCO CONNECTIONS ANSCHLUSS GEWINDE	PORTATA MAX MAX FLOW MAX DUICHFLUSS LEISTUNG	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK
		l/min.	bar
HDD638	3/8"	60	315
HDD612	1/2"	90	280
HDD634	3/4"	120	250

La singola sezione permette di collegare o escludere il flusso verso due utilizzi, usando una sola alimentazione. Una sola leva, tramite un'accoppiamento meccanico, aziona due sezioni contemporaneamente. Questa particolare configurazione si presta anche per l'azionamento di due attuatori doppio effetto. Corpo in ghisa, componenti in acciaio.

Every single 3 ways diverter flow is used to connect or to take out inlet flow until two ports. When hand lever turns it moves together all two spindles by mechanical connection. This special hydraulic scheme is able to control a double action actuators. Iron steel body, hardened spindle.

## DISTRIBUTORI MONOBLOCCO MONOBLOCK VALVES MONOBLOCK STEURGERÄTE



ART	PORTATA LIMITE MAX FLOW MAX DURCHFLOSSLEISTUNG	PRESSIONE MAX MAX PRESSURE BETRIEBSDRUCK	PORTATA NOMINALE NOMINAL FLOW DURCHSCHNITTL. DURCHFLOSSLEISTUNG	FILETT. ATTACCHI THREADS ANSCHLUNGEWINDE	TIPO CIRCUITO SPOOL TYPE SCHALTKREIS	N° ELEMENTI N° ELEMENTS N° ELEMENTE		
HBM401S	45	300	35	3/8" GAS	S	1		
HBM401D	45	300	35	3/8" GAS	D	1		
HBM402D	45	300	35	3/8" GAS	D	2		
HBM402S	45	300	35	3/8" GAS	S	2		
HBM402SD	45	300	35	3/8" GAS	SD	2		
HBM702S	90	300	65	1/2" GAS	S	2		
HBM702SD	90	300	65	1/2" GAS	SD	2		
HBM702D	90	300	65	1/2" GAS	D	2		
HBM703D	90	300	65	1/2" GAS	D	3		

D= Doppio effetto / double effect / Doppel-Effekt  
S= Semplice effetto / simple effect / Einfach-Effekt

SD= 1 leva Semplice effetto + 1 leva Doppio effetto / simple effect + double effect / Einfach-Effekt + Doppel-Effekt

## MACCHINA PRESSATUBI SEMI-AUTOMATICA SEMI-AUTOMATIC HYDRAULIC HOSES PRESSING IMPLEMENT HALBAUTOMATISCHE SCHLAUCHPRESSE

ART	PER TUBI FINO A Ø FOR PIPES UNTIL Ø FÜR SCHL. UCHEN BIS Ø	TESTATA Ø HEAD Ø KOPFABMESSUNGEN Ø
HAPRT40	1"	250
HAPRT80	1" 1/2	300

\* Questa pressa può funzionare con centralina a parte.  
\* This pipe-press can working with hydraulic power pack.  
\* Die schlauchpresse kann mit separater krafteinheit arbeiten.

### HAPRT40

Fornita con dotazione standard di n° 5 serie di morsetti (1/4"-1"), distributore manuale e micrometro per la regolazione del diametro di pressatura.

### HAPRT40

Standard supply includes a set of 5 clamps (1/4"-1"), manual distributor and micrometer to adjust the pressing diameter.

### HAPRT40

Wird in Serienausstattung mit 5 Schraubstocksätzen (1/4"-1"), manuellem Verteiler und Mikrometer für die Einstellung des Preßdurchmessers geliefert.

### HAPRT80

Fornita con dotazione standard di n° 7 serie di morsetti (1/4"-1" 1/2), distributore manuale e micrometro per la regolazione del diametro di pressatura.

### HAPRT80

Standard supply includes a set of 7 clamps (1/4"-1" 1/2), manual distributor and micrometer to adjust the pressing diameter.

### HAPRT80

Wird in Serienausstattung mit 7 Schraubstocksätzen (1/4"-1" 1/2), manuellem Verteiler und Mikrometer für die Einstellung des Preßdurchmessers geliefert.



## CENTRALINA OLEODINAMICA HYDRAULIC POWER PACK HYDRAULISCHE KRAFTEINHEIT

ART	VOLT
HACNT4080T	220/380 V
HACNT4080M	220 V

Serbatoio 15 litri, Pressione max. 280 atm..  
Completa di attacchi per collegamento a pressa.

Tank 15 l., Max pressure 280 atm.  
Complete with connections for pipe-press

Tank 15 l. max betriebsdruck 280 atm.  
Komplett mit Anschluss für Schlauchpresse.



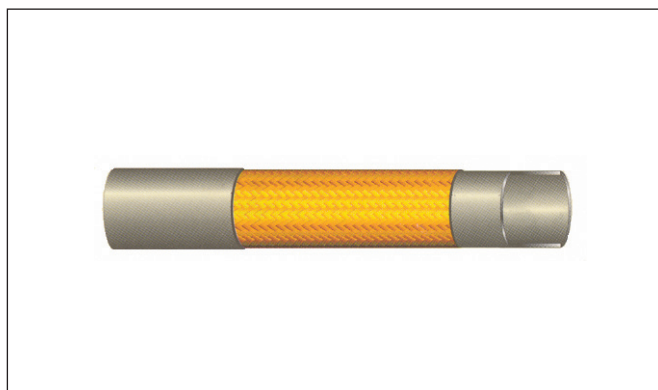


TAGLIATUBI  
PIPE CUTTER  
ROHRSCHERE

ART	VOLT	DIMENSIONI MEASUREMENTS GRÖßEN
HTGT300T	2" 320 V	350X800X900 h
HTGT300M	2" 220 V	
HTGT300TS	2" 320 V Hp 5,5	

TUBI OLEODINAMICI  
HYDRAULIC HOSES  
HYDRAULIKSCHLÄUCHE

FLEX IT/1T - DIN 20022 1SN, EN853/1SN, EXCEEDS SAE 100R1AT

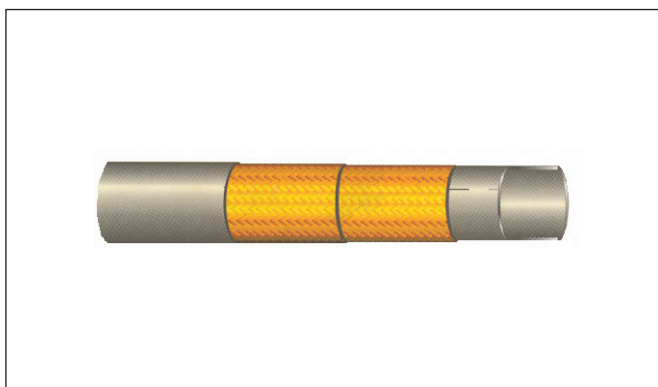


ART	Ø FORO Ø HOLE Ø SCHLAUCH			Ø ESTERNO FILO INTERMEDIO Ø EXTERNAL MIDDLE THREAD Ø AUßEN ZWISCHENDRAHT	Ø ESTERNO COPERTURA Ø EXTERNAL COVERING Ø AUßEN VERKLEIDUNG	MAX. PRESSIONE DI LAVORO MAX WORK PRESSURE BETRIEBSDRUCK		MIN. PRESSIONE DI SCOPPIO MIN. BURST PRESSURE MIN. PLATZDRUCK		RAGGIO MIN. DI CURVATURA MIN. BEND RADIUS MIN. BIEGERADIUS	
	inch.	DN	mm	mm	mm	bar	psi	bar	psi	mm	inch.
TIR1AT14	1/4	6	6,4	11,1	13,4	225	3265	900	13050	100	4,0
TIR1AT516	5/16	8	7,9	12,7	15,0	215	3265	850	12325	115	4,5
TIR1AT38	3/8	10	9,5	15,1	17,4	180	2610	720	10440	130	5,0
TIR1AT12	1/2	12	12,7	18,3	20,6	160	2320	640	3280	180	7,0
TIR1AT58	5/8	16	15,9	21,4	23,7	130	1885	520	7540	200	8,0
TIR1AT34	3/4	19	19,0	25,4	27,7	105	1525	420	6090	240	9,5
TIR1AT1	1	25	25,4	33,3	35,6	88	1275	350	5075	300	12,0
TIR1AT114	1 1/4	31	31,8	40,5	43,5	63	915	250	3625	420	16,5
TIR1AT112	1 1/2	38	38,1	46,8	50,6	50	725	200	2900	500	20,0
TIR1AT2	2	32	50,8	60,2	64,0	40	580	160	2320	630	25,0

Reinforcement: 1 high tensile wire braid. Temperature range continuous service: -40° C +100°C. Max. operating temperature: +125°C.

**TUBI OLEODINAMICI**  
**HYDRAULIC HOSES**  
**HYDRAULIKSCHLÄUCHE**

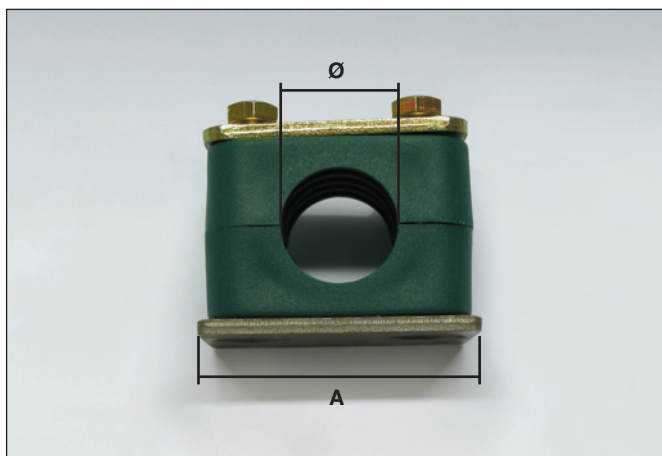
FLEX IT/1T - DIN 20022 2SN, EN853/2SN, EXCEEDS SAE 100R2AT



ART	Ø FORO Ø HOLE Ø SCHLAUCH			Ø ESTERNO FILO INTERMEDIO Ø EXTERNAL MIDDLE THREAD Ø AUFEN ZWISCHENDRAHT	Ø ESTERNO COPERTURA Ø EXTERNAL COVERING Ø AUFEN VERKLEIDUNG	MAX. PRESSIONE DI LAVORO MAX WORK PRESSURE BETRIEBSDRUCK		MIN. PRESSIONE DI SCOPPIO MIN. BURST PRESSURE MIN. PLATZDRUCK		RAGGIO MIN. DI CURVATURA MIN. BEND RADIUS MIN. BIEGERADIUS	
	inch.	DN	mm	mm	mm	bar	psi	bar	psi	mm	inch.
<b>TIR2AT14</b>	1/4	6	6,4	12,7	15,0	400	5800	1600	23200	100	4,0
<b>TIR2AT516</b>	5/16	8	7,9	14,3	16,6	350	5075	1400	20300	115	4,5
<b>TIR2AT38</b>	3/8	10	9,5	16,7	19,0	330	4785	1320	19140	130	5,0
<b>TIR2AT12</b>	1/2	12	12,7	19,8	22,2	280	4000	1100	15950	180	7,0
<b>TIR2AT58</b>	5/8	16	15,9	23,0	25,4	250	3625	1000	14500	200	8,0
<b>TIR2AT34</b>	3/4	19	19,0	27,0	29,3	215	3120	850	12325	240	9,5
<b>TIR2AT1</b>	1	25	25,4	34,9	38,1	165	2395	650	9425	300	12,0
<b>TIR2AT114</b>	1 1/4	31	31,8	44,5	48,3	125	1810	500	7250	420	16,5
<b>TIR2AT112</b>	1 1/2	38	38,1	50,8	54,6	90	1305	360	5220	500	20,0
<b>TIR2AT2</b>	2	32	50,8	63,5	67,3	80	1160	320	4640	630	25,0

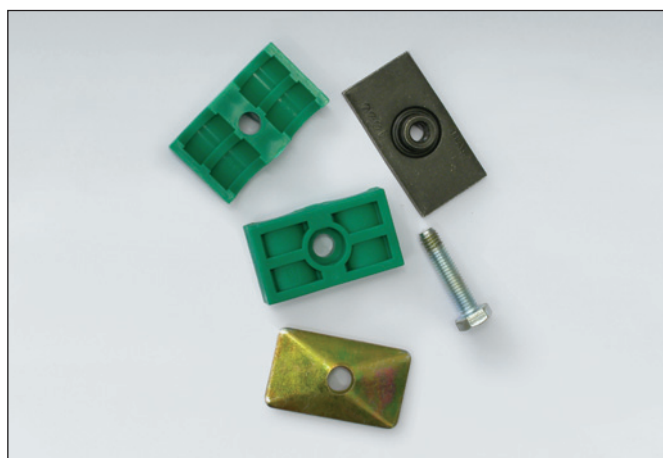
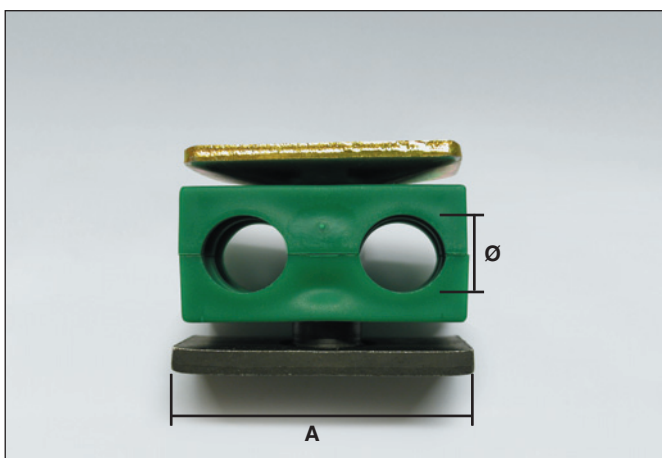
Reinforcement: 1 high tensile wire braid. Temperature range continuous service: -40° C +100°C. Max. operating temperature: +125°C.

**BLOCCHETTO FERMATUBI IN POLIPROPILENE**  
**BRACKETS FOR PIPES**  
**EINFACHROHRSCHELLEN**



ART	Ø	A	VITI SCREWS SCHRAUBE
HDC1P12	12	37	M6X22
HDC1P16	16	43	M6X28
HDC1P22	22	50	M6X30
HDC1P28	28	57	M6X40

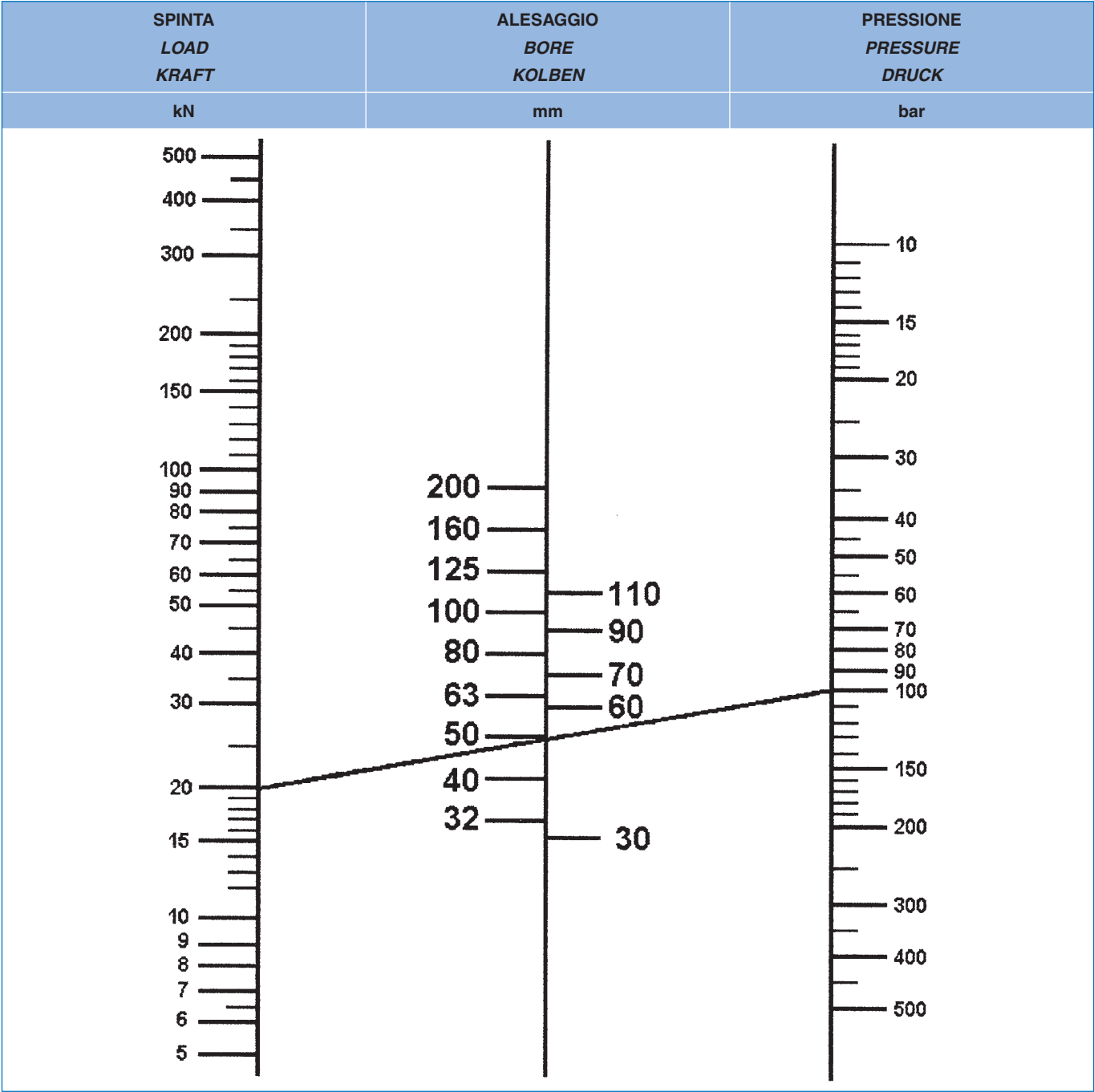
**BLOCCHETTO FERMATUBI IN POLIPROPILENE**  
**BRACKETS FOR PIPES**  
**EINFACHROHRSCHELLEN**



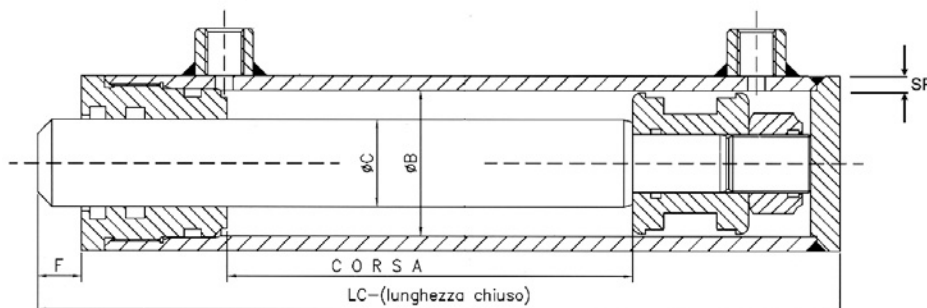
ART	Ø	A	VITI SCREWS SCHRAUBE
HDC2P12	12	36	M6X35
HDC2P16	16	54	M6X35
HDC2P22	22	67	M6X45
HDC2P28	28	80	M6X50



TABELLA SPINTA CILINDRI IDRAULICI  
THRUST SCHEDULE FOR HYDRAULIC CYLINDERS  
KRAFTTABELLE HYDRAULIKZYLINDER



**CILINDRI IDRAULICI DOPPIO EFFETTO**  
**DOUBLE-ACTING CYLINDERS**  
**HYDRAULIK-ZYLINDER DOPPELWIRKEND**



ART	Ø SP. mm Ø THICKNESS	Ø B INT. ALESAGGIO BORE INTERNAL mm	Ø C STELO STEM mm	L. CHIUSO CLOSED LENGHT mm	F mm
FL504020XXX	5	40	20	125+CORSA	20
FL504025XXX	5	40	25		
FL605020XXX	5	50	20	137+CORSA	20
FL605025XXX	5	50	25		
FL605030XXX	5	50	30		
FL605035XXX	5	50	35		
FL706025XXX	5	60	25	142+CORSA	20
FL706030XXX	5	60	30		
FL706035XXX	5	60	35		
FL706040XXX	5	60	40		
FL756525XXX	5	65	25	142+CORSA	20
FL756530XXX	5	65	30		
FL756535XXX	5	65	35		
FL756540XXX	5	65	40		
FL807030XXX	5	70	30	155+CORSA	25
FL807035XXX	5	70	35		
FL807040XXX	5	70	40		
FL807045XXX	5	70	45		
FL807050XXX	5	70	50		
FL908030XXX	5	80	30	169+CORSA	25
FL908035XXX	5	80	35		
FL908040XXX	5	80	40		
FL908045XXX	5	80	45		
FL908050XXX	5	80	50		
FL908060XXX	5	80	60		

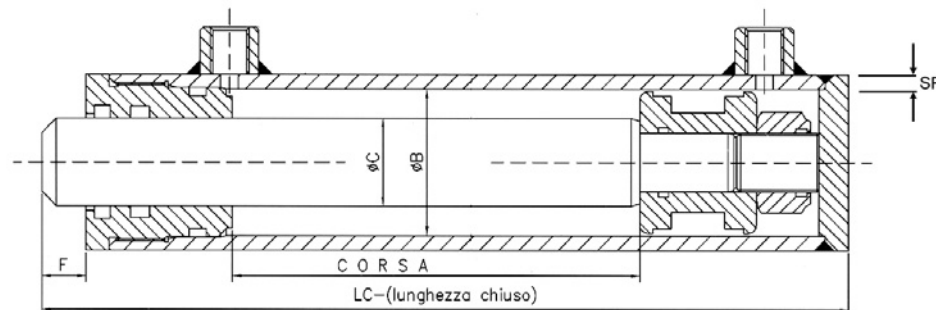
I codici di riferimento relativi agli articoli sopra esposti, devono essere completati aggiungendo al posto delle xxx la corsa richiesta.  
 Es: FL1009040XXX con una corsa di 200mm diventerà FL1009040200.

I cilindri sono forniti con attacchi da 3/8" e spessore 5 mm. Altri tipi di attacchi e spessori a richiesta.

*The above code-number must be completed adding the required stroke instead of xxx. Example: FL1009040XXX with a stroke of 200 mm will be FL1009040200. The cylinders are supplied with connection 3/8" and thickness 5 mm. Other types on request.*

*Die Oben genannten Artikelnummern müssen anstelle des xxx mit dem gewünschten Hub ergänzt werden. Bsp.: FL1009040XXX mit Hub 200 mm wird FL1009040200. Die Zylinder werden mit 3/8 Anschluss 5 mm Stärke geliefert. Andere Anschlüsse und Stärken auf Nachfrage erhältlich.*

**CILINDRI IDRAULICI DOPPIO EFFETTO**  
**DOUBLE-ACTING CYLINDERS**  
**HYDRAULIK-ZYLINDER DOPPELWIRKEND**



ART	Ø SP. mm Ø THICKNESS	Ø B INT. ALESAGGIO BORE INTERNAL mm	Ø C STELO STEM mm	L. CHIUSO CLOSED LENGHT mm	F mm
FL1009040XXX	5	90	40	169+CORSA	25
FL1009045XXX	5	90	45		
FL1009050XXX	5	90	50		
FL1009060XXX	5	90	60		
FL1009070XXX	5	90	70		
FL11010040XXX	5	100	40	184+CORSA	25
FL11010045XXX	5	100	45		
FL11010050XXX	5	100	50		
FL11010055XXX	5	100	55		
FL11010060XXX	5	100	60		
FL11010070XXX	5	100	70		
FL11010080XXX	5	100	80		
FL12011040XXX	5	110	40	173+CORSA	25
FL12011045XXX	5	110	45		
FL12011050XXX	5	110	50		
FL12011060XXX	5	110	60		
FL12011070XXX	5	110	70		
FL15514050XXX	7,5	140	50	194+CORSA	25

I codici di riferimento relativi agli articoli sopra esposti, devono essere completati aggiungendo al posto delle xxx la corsa richiesta.

Es: FL1009040XXX con una corsa di 200mm diventerà FL1009040200.

I cilindri sono forniti con attacchi da 3/8" e spessore 5 mm. Altri tipi di attacchi e spessori a richiesta.

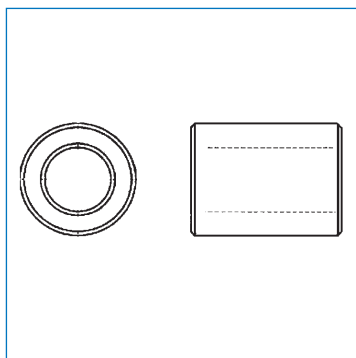
*The above code-number must be completed adding the requiered stroke insted of xxx. Example: FL1009040XXX with a stroke of 200 mm will be FL1009040200. The cylinders are supplied with connection 3/8" and thickness 5 mm. Other types on request.*

*Die Oben genannten Artkelnummern müssen anstelle des xxx mit dem gewünschten Hub ergänzt werden. Bsp.: FL1009040XXX mit Hub 200 mm wird FL1009040200. Die Zylinder werden mit 3/8 Anschluss 5 mm Stärke geliefert. Andere Anschlüsse und Stärken auf Nachfrage erhältlich.*

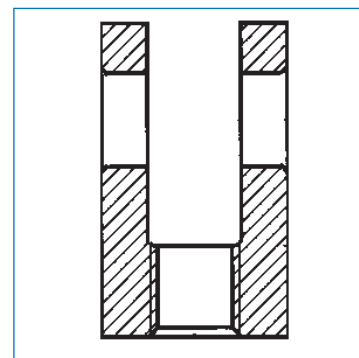


## TIPI DI ATTACCHI END CONNECTIONS ANSCHLÄSSE

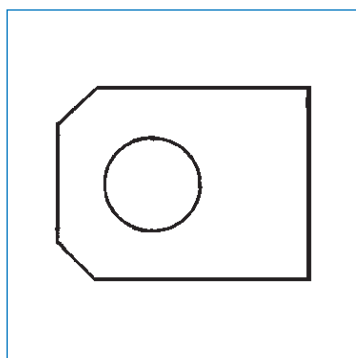
**BOCCOLA**  
*PISTON BUSCHING END*  
*ANSCHWEIßBUCHSE*



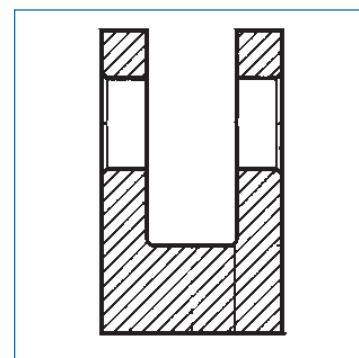
**FORCELLE FORATE**  
*FILETTATE*  
*CYLINDER YOKES*  
*ANSCHWEIßGABEL*



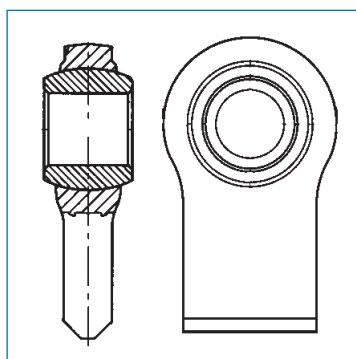
**PIATTO**  
*FIXED EYE*  
*FESTAUGE*



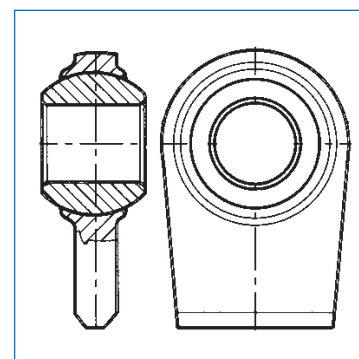
**FORCELLE FORATE A**  
*SALDARE*  
*CYLINDER YOKES*  
*ANSCHWEIßGABEL*



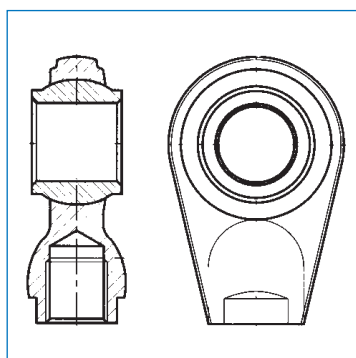
**SNODO SFERICO A**  
*SALDARE*  
*WELDING BALL JOINT*  
*SCHWEISSGELENKKOPF*



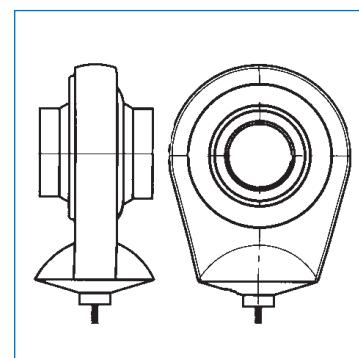
**SNODO SFERICO A**  
*SALDARE*  
*WELDING BALL JOINT*  
*SCHWEISSGELENKKOPF*



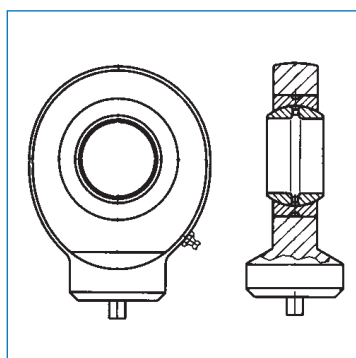
**SNODO SFERICO A**  
*SALDARE*  
*WELDING BALL JOINT*  
*SCHWEISSGELENKKOPF*



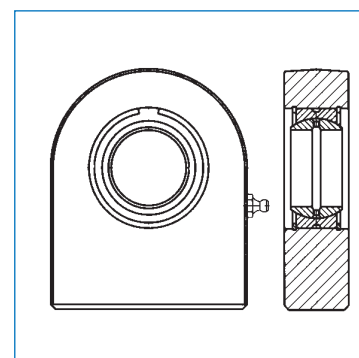
**SNODO SFERICO A**  
*SALDARE*  
*WELDING BALL JOINT*  
*SCHWEISSGELENKKOPF*



**TERMINALE A SNODO**  
*LUBRIFICABILE*  
*BALL JOINT ENDS WITH*  
*GREASE NIPPLE*  
*GELENKKÖPFE MIT*  
*SCHMIERNIPPEL*



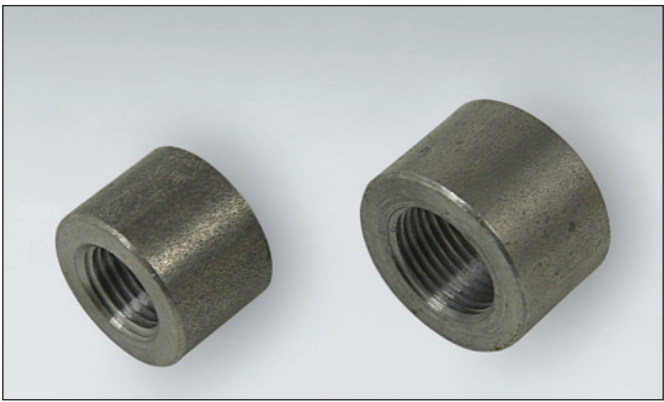
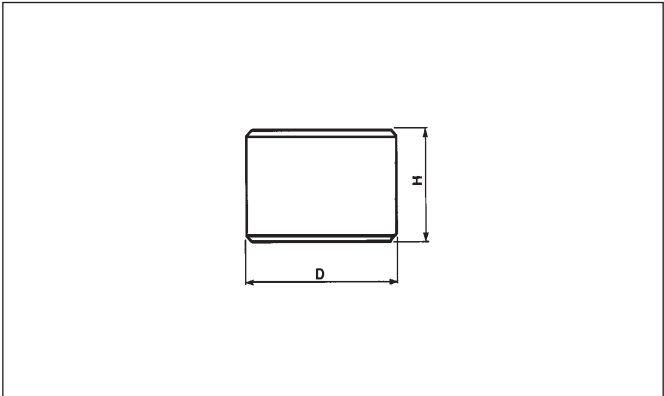
**TERMINALE A SNODO**  
*LUBRIFICABILE*  
*BALL JOINT ENDS WITH*  
*GREASE NIPPLE*  
*GELENKKÖPFE MIT SCHMI-*  
*ERNIPPEL*



COMPONENTI PER CILINDRI OLEODINAMICI  
COMPONENTS FOR OIL-PRESSURE CYLINDERS  
ANBAUTEILE FÜR ÖLDYNAMISCHE ZYLINDER

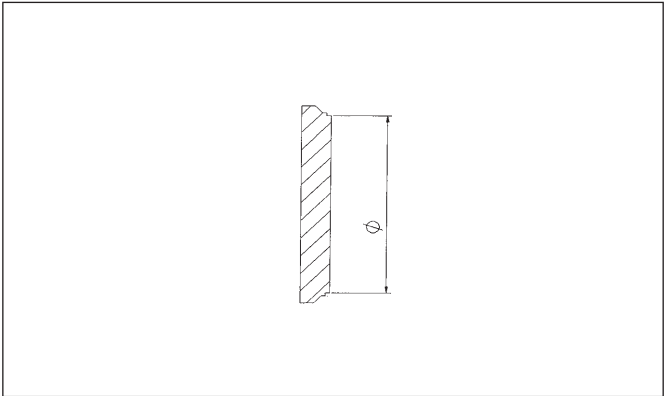
BORCHIE FILETTATE  
THREADED BUSHING  
GEWINDESTUTZEN

ART	FILETTO THREAD GEWINDE	D	H
FLRB38	3/8"	26	17
FLRB12	1/2"	30	18
FLRB34	3/4"	38	20
FLRB1	1"	45	25
FLRB1415	M14X1,5	22	16
FLRB1615	M16X1,5	24	18
FLRB1815	M18X1,5	28	18



FONDELLI  
BOTTOM  
ZYLINDERBODEN

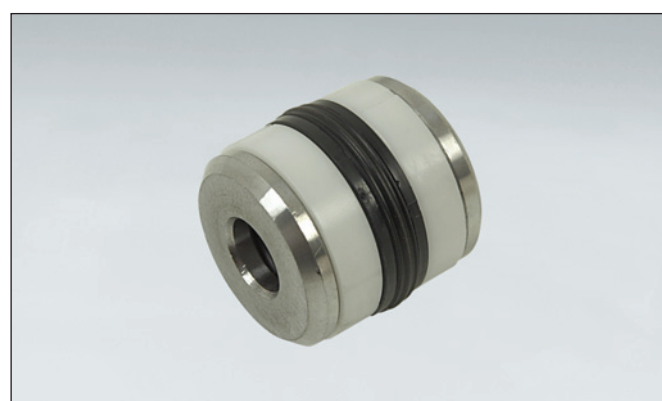
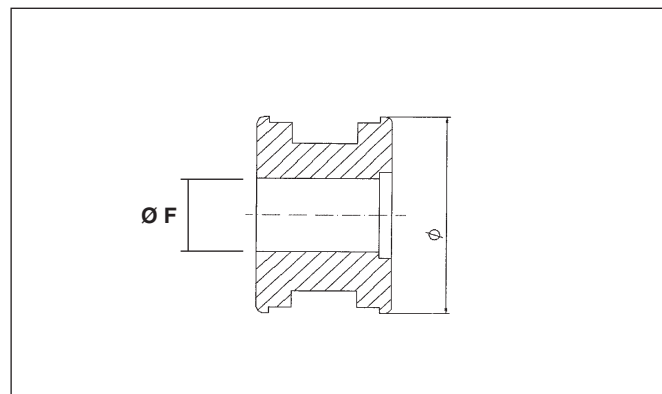
ART	Ø ALESAGGIO PISTONE Ø BORE PISTON Ø KOLBEN
HFO032	32
HFO035	35
HFO040	40
HFO050	50
HFO060	60
HFO065	65
HFO070	70
HFO075	75
HFO080	80
HFO090	90
HFO100	100
HFO110	110
HFO140	140



**COMPONENTI PER CILINDRI OLEODINAMICI**  
**COMPONENTS FOR OIL-PRESSURE CYLINDERS**  
**ANBAUTEILE FÜR ÖLDYNAMISCHE ZYLINDER**

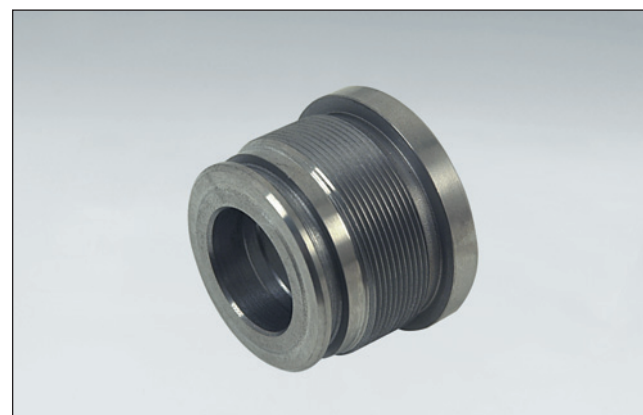
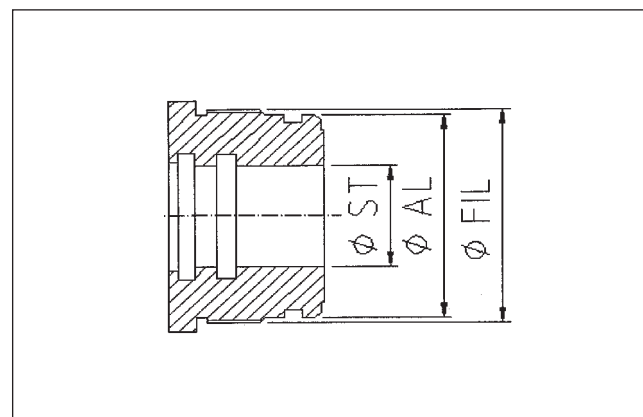
**PISTONE PER CILINDRI**  
**PISTON FOR CYLINDERS**  
**ZYLINDERKOPF**

ART	Ø ALESAGGIO PISTONE Ø BORE Ø KOLBEN	Ø F
HPT032	32	15
HPT035	35	15
HPT040	40	15
HPT050	50	15
HPT060	60	20
HPT065	65	20
HPT070	70	20
HPT075	75	27
HPT080	80	27
HPT090	90	27
HPT100	100	27
HPT110	110	33
HPT140	140	40



**TESTATE PER CILINDRI**  
**ROD GUIDE FOR CYLINDERS**  
**FÜHRUNG**

ART	Ø ALESAGGIO Ø BORE Ø KOLBEN	Ø STELO Ø STEM Ø STIL	Ø FILETTO THREAD GEWINDE
HTS032015	32	15	M35X1,5
HTS032020	32	20	M35X1,5
HTS035020	35	20	M39X1,5
HTS040XXX	40	...	M44X1,5
HTS050XXX	50	...	M54X1,5
HTS060XXX	60	...	M64X1,5
HTS065XXX	65	...	M65X1,5
HTS070XXX	70	...	M80X2
HTS075XXX	75	...	M85X2
HTS080XXX	80	...	M85X2
HTS090XXX	90	...	M95X2
HTS100XXX	100	...	M105X2
HTS110XXX	110	...	M115X2
HTS140XXX	140	...	M145X2



Per le testate con alesaggi dal 40 in poi specificare sempre al posto delle xxx il diametro dello stelo richiesto. Es.: per una testata con alesaggio 50 e stelo 30 il codice sarà HTS050030.

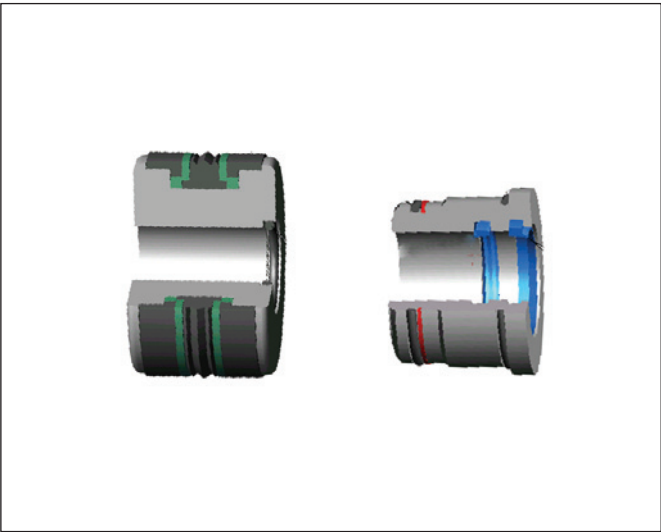
For the rod guides with bores from 40 and more, please always specify instead of xxx the required diameter of the stem. Example: for a rod guide with bore 50 and stem 30 the code will be HTS050030.

Für die Führungen mit Kolben ab Ø40 bitte immer am stelle des xxx gewünschten Durchmesser des Stils angeben. Bsp.: Für eine Führung mit Kolben 50 und Stil 30= Art. Nr. HTS050030.



**COMPONENTI PER CILINDRI OLEODINAMICI**  
**COMPONENTS FOR OIL-PRESSURE CYLINDERS**  
**ANBAUTEILE FÜR ÖLDYNAMISCHE ZYLINDER**

**KIT GUARNIZIONI PER CILINDRI**  
**GASKET SETS FOR CYLINDERS**  
**DICHTUNGSSATZ FÜR DW-ZYLINDER**

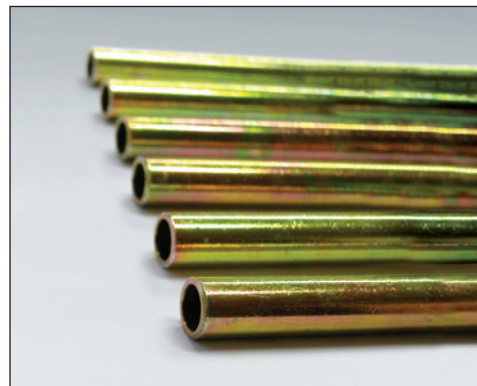


ART	Ø ALESAGGIO Ø BORE Ø KOLBEN	Ø STELO Ø STEM Ø STIL
H032015K	32	15
H032020K	32	20
H035020K	35	20
H040020K	40	20
H040025K	40	25
H050025K	50	25
H050030K	50	30
H050035K	50	35
H060025K	60	25
H060030K	60	30
H060035K	60	35
H060040K	60	40
H065025K	65	25
H065030K	65	30
H065035K	65	35
H065045K	65	45
H070030K	70	30
H070035K	70	35
H070040K	70	40
H070045K	70	45
H070050K	70	50

ART	Ø ALESAGGIO Ø BORE Ø KOLBEN	Ø STELO Ø STEM Ø STIL
H075035K	75	35
H080030K	80	30
H080035K	80	35
H080040K	80	40
H080045K	80	45
H080050K	80	50
H080060K	80	60
H080065K	80	65
H090040K	90	40
H090045K	90	45
H090050K	90	50
H090060K	90	60
H090070K	90	70
H100040K	100	40
H100055K	100	55
H100060K	100	60
H100070K	100	70
H110050K	110	50
H110070K	110	70
H140050K	140	50

**TUBO IN ACCIAIO PER CIRCUITI OLEODINAMICI**  
**STEEL TUBES FOR OLEODINAMIC PLANTS**  
**STAHLROHRE FÜR HYDRAULIKANLAGEN**

ART	Ø ESTERNO Ø EXTERNAL Ø AUßEN	Ø INTERNO Ø INTERNAL Ø INNEN	SPESSORE mm THICKNESS WANDSTÄRKE
HTB0601	6	4	1
HTB0615	6	3	1,5
HTB0602	6	2	2
HTB0801	8	6	1
HTB0815	8	5	1,5
HTB0802	8	4	2
HTB0825	8	3	2,5
HTB1001	10	8	1
HTB1015	10	7	1,5
HTB1002	10	6	2
HTB1025	10	5	2,5
HTB1003	10	4	3
HTB1201	12	10	1
HTB1215	12	9	1,5
HTB1202	12	8	2
HTB1225	12	7	2,5
HTB1203	12	6	3
HTB1501	15	13	1
HTB1515	15	12	1,5
HTB1502	15	11	2
HTB1525	15	10	2,5
HTB1503	15	9	3



**BARRE CROMATE DI PRECISIONE**  
**CHROMATE BAR**  
**PRÄZISIONSTANGEN AUS CHROM**



ART	Ø ESTERNO Ø EXTERNAL Ø AUßEN	PESO TEORICO Kg/m THEORETICAL WEIGHT THEORETISCHES GEWICHT	ART	Ø ESTERNO Ø EXTERNAL Ø AUßEN	PESO TEORICO Kg/m THEORETICAL WEIGHT THEORETISCHES GEWICHT
ALBC25	25	3,851	ALBC60	60	22,18
ALBC30	30	5,546	ALBC70	70	30,19
ALBC35	35	7,548	ALBC80	80	39,43
ALBC40	40	9,859	ALBC90	90	49,91
ALBC45	45	12,47	ALBC100	100	61,62
ALBC50	50	15,40	ALBC110	110	74,60

**TUBO TRAFILATO LEVIGATO**  
**DRAWN SMOOTH PIPE**  
**GEZOGENES ROHR GESCHLIFFEN**



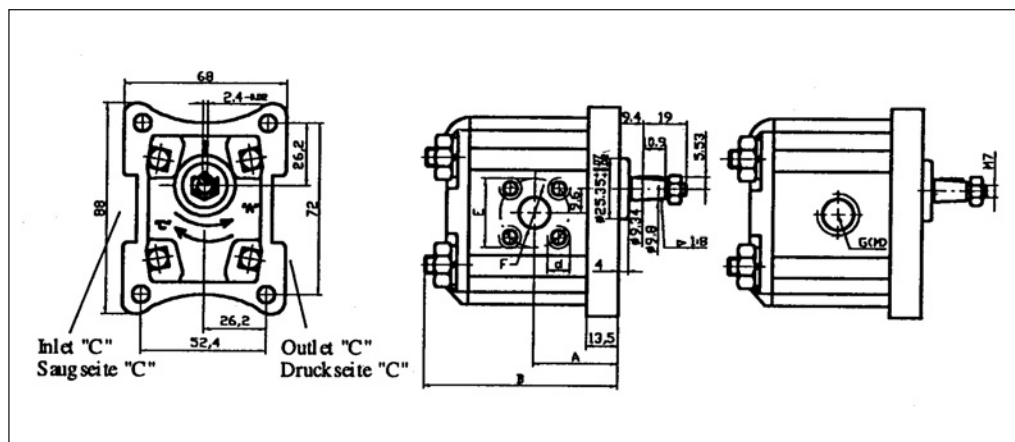
ART	Ø INTERNO Ø INTERNAL Ø INNEN	Ø ESTERNO Ø EXTERNAL Ø AUBEN	SPESSORE mm THICKNESS WANDSTÄRKE	PESO Kg/m WEIGHT GEWICHT
MZTT050040	40	50	5	5,55
MZTT060050	50	60	5	6,78
MZTT070060	60	70	5	8,01
MZTT080070	70	80	5	9,25
MZTT085070	70	85	7,5	14,33
MZTT090080	80	90	5	10,50
MZTT120100	100	120	10	27,13
MZTT120105	105	120	7,5	20,81
MZTT140120	120	140	10	32,06
MZTT140125	125	140	7,5	24,51
MZTT160140	140	160	10	36,99
MZTT180160	160	180	10	41,92



In barre da m. 4  
 4 m. bars  
 Stangen à 4 m.

Altre misure disponibili su richiesta  
 Other measures on request  
 Weitere Größen Auf Anfrage erhältlich



**GRUPPO 1**  
**GROUP 1**  
**GRUPPE 1**



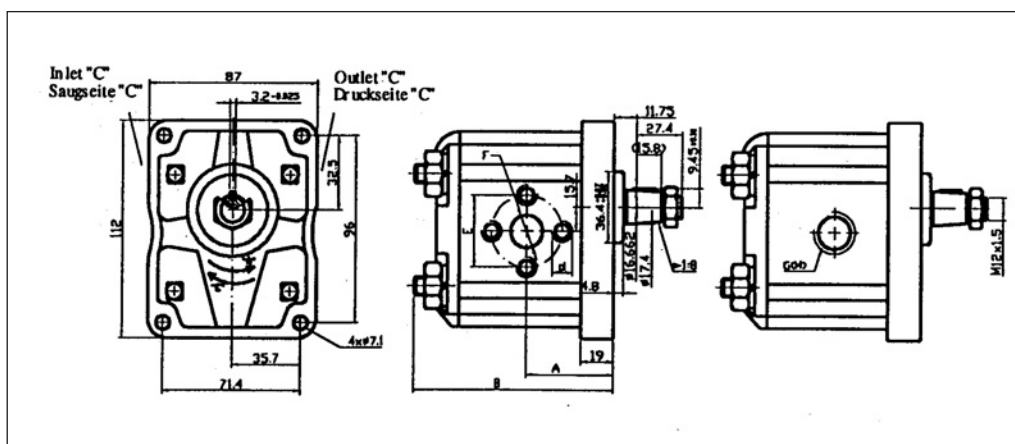
ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG	ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG
HP1A027X	A027X	1,22	A 	HP1C027X	C027X	1,22	C 
HP1A036X	A036X	1,63		HP1C036X	C036X	1,63	
HP1A048X	A048X	2,18		HP1C048X	C048X	2,18	
HP1A060X	A060X	2,72		HP1C060X	C060X	2,72	
HP1A072X	A072X	3,27		HP1C072X	C072X	3,27	
HP1A084X	A084X	3,81		HP1C084X	C084X	3,81	
HP1A096X	A096X	4,36		HP1C096X	C096X	4,36	
HP1A012X	A012X	5,7		HP1C012X	C012X	5,7	

TIPO TYPE TYP	A      B		DIMENSIONI / DIMENSIONS / ABMESSUNGEN									
			ENTRATA / INLET / SAUGSEITE					USCITA / OUTLET / DRUCKSEITE				
			E	d	F	M	G	E	f	F	M	G
	mm		mm					mm				
C(A)027X	31	69	30,2	M6	13	M16X1,5	G3/8	30,2	M6	13	M16X1,5	G3/8
C(A)036X	32	71										
C(A)048X												
C(A)060X												
C(A)072X												
C(A)084X												
C(A)096X	40,8	87,8										
C(A)012X												



TIPO TYPE TYP	CILINDRATA cm³ WORKING VOL. cm³ FÖRDERVOLUMEN cm³	PRESSIONE MAX. bar MAX. PRESSURE bar MAXIMALDRUCK bar	VELOCITA' MIN. giri/min MIN. SPEED rpm MIN. DREHZAHL	VELOCITA' MAX. giri/min MAX SPEED rpm MAX. DREHZAHL
027X	1,22	200	650	3500
036X	1,63	200	650	3500
048X	2,18	200	650	3500
060X	2,72	200	650	3500
072X	3,27	200	650	3500
084X	3,81	170	650	3500
096X	4,36	150	650	3500
012X	5,7	150	650	3500

- Versione normale / *Normal version* / *Standardausführung*
- Versione filetto GAS / *GAS thread* / *Gasgewinde (BSP)*
- Versione filetto metrico / *Metric thread* / *Metrisches Gewinde*

## RADPUMPEN 175 BAR



**GRUPPE 2**

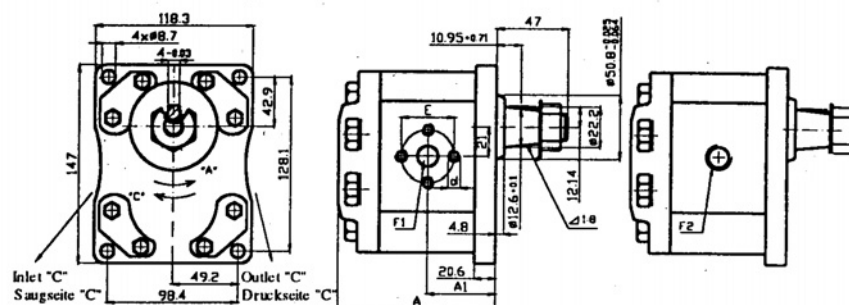
ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG	ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG
HP2A10X	A10X	4,5	<div>A</div> 	HP2C10X	C10X	4,5	<div>C</div> 
HP2A14X	A14X	6,3		HP2C14X	C14X	6,3	
HP2A18X	A18X	8,2		HP2C18X	C18X	8,2	
HP2A25X	A25X	11,3		HP2C25X	C25X	11,3	
HP2A33X	A33X	15		HP2C33X	C33X	15	
HP2A42X	A42X	19		HP2C42X	C42X	19	

[illegible]



TIPO TYPE TYP	CILINDRATA cm³ WORKING VOL. cm³ FÖRDERVOLUMEN cm³	PRESSIONE MAX. bar MAX. PRESSURE bar MAXIMALDRUCK bar	VELOCITA' MIN. giri/min MIN. SPEED rpm MIN. DREHZAHL	VELOCITA' MAX. giri/min MAX SPEED rpm MAX. DREHZAHL
10X	4,5	200	650	3500
14X	6,3	200	650	3500
18X	8,2	200	650	3500
25X	11,3	200	650	3500
33X	15	170	650	3500
42X	19	130	650	3500

- Versione normale / *Normal version* / *Standardausführung*
- Versione filetto GAS / *GAS thread* / *Gasgewinde (BSP)*
- Versione filetto metrico / *Metric thread* / *Metrisches Gewinde*

**POMPE AD INGRANAGGI  
175 BAR**  
**HYDRAULIC GEAR  
PUMPS 175 BAR**  
**HYDRAULISCHE ZAHN-  
RADPUMPEN 175 BAR**



**GRUPPO 3**  
**GROUP 3**  
**GRUPPE 3**

ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG	ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG
HP3A43X	A43X	19,5	A 	HP3C43X	C43X	19,5	C 
HP3A54X	A54X	24,5		HP3C54X	C54X	24,5	
HP3A72X	A72X	32,7		HP3C72X	C72X	32,7	
HP3A94X	A94X	42,6		HP3C94X	C94X	42,6	

TIPO TYPE TYP	A      B		DIMENSIONI / DIMENSIONS / ABMESSUNGEN									
			ENTRATA / INLET / SAUGSEITE					USCITA / OUTLET / DRUCKSEITE				
			F1	d	E	F2T	F2TM	F1	d	E	F2T	F2TM
	mm		mm					mm				
C(A)43X	106	52	19	M8	39,7	G3/4	M27X1,5	19	M8	39,7	G3/4	M27X1,5
C(A)54X	106	52	19	M8	39,7	G3/4	M27X1,5	19	M8	39,7	G3/4	M27X1,5
C(A)72X	122	60	27	M10	50,8	G1	M33X1,5	19	M8	39,7	G3/4	M27X1,5
C(A)94X	122	60	27	M10	50,8	G1	M33X1,5	19	M8	39,7	G3/4	M27X1,5

TIPO TYPE TYP	CILINDRATA cm³ WORKING VOL. cm³ FÖRDERVOLUMEN cm³	PRESSIONE MAX. bar MAX. PRESSURE bar MAXIMALDRUCK bar	VELOCITA' MIN. giri/min MIN. SPEED rpm MIN. DREHZAHL	VELOCITA' MAX. giri/min MAX SPEED rpm MAX. DREHZAHL
43X	19,5	200	700	2500
54X	24,5	200	700	2500
72X	32,7	200	700	2500
94X	42,6	150	700	2500

TIPO ROTAZIONE:  
DIRECTION OF ROTATION:  
DREHRICHTUNG:

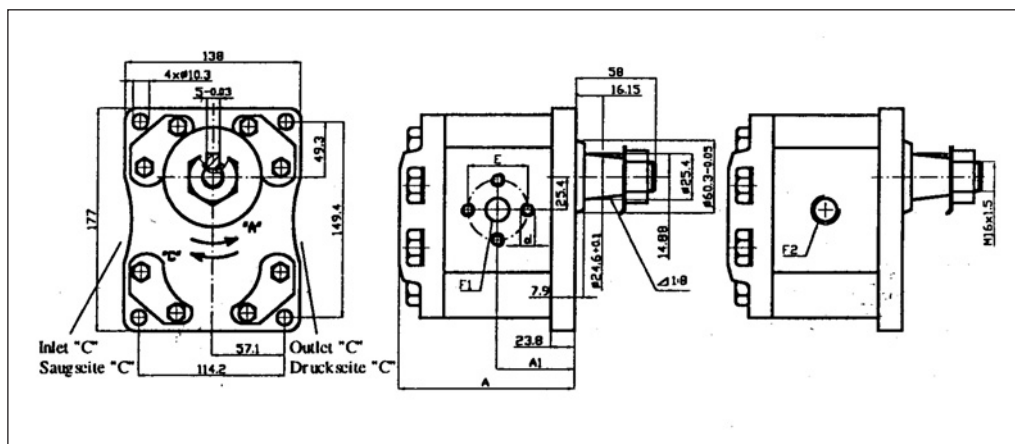
SX  A  
DX  C



...X  
...XT  
...XTM

- Versione normale / *Normal version* / *Standardausführung*
- Versione filetto GAS / *GAS thread* / *Gasgewinde (BSP)*
- Versione filetto metrico / *Metric thread* / *Metrisches Gewinde*



**GRUPPO 3.5**  
***GROUP 3.5***  
***GRUPPE 3.5***



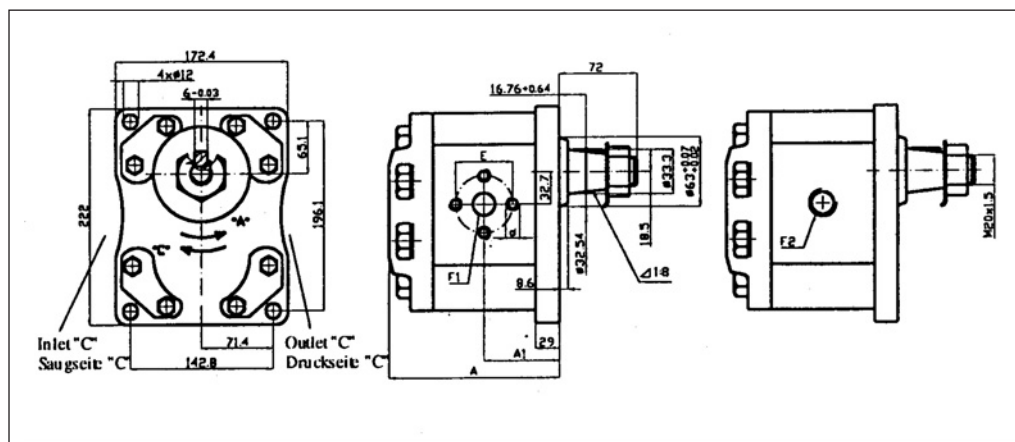
ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG	ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG
HP4A95X	A95X	43	A 	HP4C95X	C95X	43	C 
HP4A120X	120X	54,5		HP4C120X	C120X	54,5	
HP4A140X	A140X	63,5		HP4C140X	C140X	63,5	
HP4A165X	A165X	75		HP4C165X	C165X	75	



TIPO TYPE TYP	A      B		DIMENSIONI / DIMENSIONS / ABMESSUNGEN									
			ENTRATA / INLET / SAUGSEITE					USCITA / OUTLET / DRUCKSEITE				
			F1	d	E	F2T	F2TM	F1	d	E	F2T	F2TM
	mm		mm					mm				
C(A)95X	132	66	27	M10	50,8	G1	M33X1,5	27	M10	50,8	G1	M33X1,5
C(A)120X	132	66	27	M10	50,8	G1	M33X1,5	27	M10	50,8	G1	M33X1,5
C(A)140X	145	72,3	33,5	M12	50,8	G1 1/4	M42X1,5	27	M10	50,8	G1	M33X1,5
C(A)165X	145	72,3	33,5	M12	50,8	G1 1/4	M42X1,5	27	M10	50,8	G1	M33X1,5

TIPO TYPE TYP	CILINDRATA WORKING VOL. FÖRDERVOLUMEN	PRESSIONE MAX. MAX. PRESSURE MAXIMALDRUCK	VELOCITA' MIN. giri/min MIN. SPEED rpm MIN. DREHZAHL	VELOCITA' MAX. giri/min MAX SPEED rpm MAX. DREHZAHL
95X	43	200	700	2000
120X	54,5	170	700	2000
140X	63,5	170	700	2000
165X	75	130	700	2000

- Versione normale / *Normal version* / *Standardausführung*
- Versione filetto GAS / *GAS thread* / *Gasgewinde (BSP)*
- Versione filetto metrico / *Metric thread* / *Metrisches Gewinde*

**GRUPPO 4**  
**GROUP 4**  
**GRUPPE 4**



ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG	ART	RIF. ORIG.	CILINDRATA WORKING VOL. FÖRDERVOLUMEN cm³	ROTAZIONE ROTATION DREHRICHTUNG
HP5A170X	A170X	77	A 	HP5C170X	C170X	77	C 
HP5A215X	A215X	98		HP5C215X	C215X	98	
HP5A280X	A280X	127		HP5C280X	C280X	127	
HP5A325X	A325X	147		HP5C325X	C325X	147	

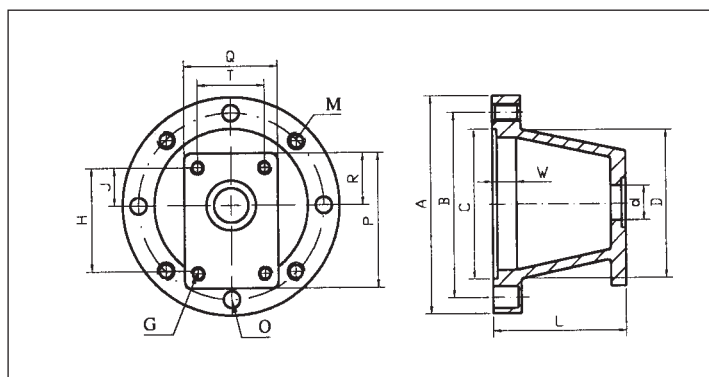
TIPO TYPE TYP	A		DIMENSIONI / DIMENSIONS / ABMESSUNGEN									
			ENTRATA / INLET / SAUGSEITE					USCITA / OUTLET / DRUCKSEITE				
			F1	d	E	F2T	F2TM	F1	d	E	F2T	F2TM
	mm		mm					mm				
C(A)170X	160	79,7	38	M12	72,5	G1 1/2	M48X2	32	M12	61,9	G1 1/4	M42X1,5
C(A)215X	160	79,7	38	M12	72,5	G1 1/2	M48X2	32	M12	61,9	G1 1/4	M42X1,5
C(A)280X	180	88,9	38	M12	72,5	G1 1/2	M48X2	32	M12	61,9	G1 1/4	M42X1,5
C(A)325X	180	88,9	38	M12	72,5	G1 1/2	M48X2	32	M12	61,9	G1 1/4	M42X1,5

TIPO TYPE TYP	CILINDRATA cm³ WORKING VOL. cm³ FÖRDERVOLUMEN cm³	PRESSIONE MAX. bar MAX. PRESSURE bar MAXIMALDRUCK bar	VELOCITA' MIN giri/min MIN. SPEED rpm MIN. DREHZAHL	VELOCITA' MAX. giri/min MAX SPEED rpm MAX. DREHZAHL
170X	77	200	700	1750
215X	98	170	700	1750
280X	127	170	700	1750
325X	147	300	700	1750

TIPO ROTAZIONE: SX  A  
DIRECTION OF ROTATION: DX  C  
DREHRICHTUNG:

...X	-Versione normale / <i>Normal version</i> / <i>Standardausführung</i>
...XT	-Versione filetto GAS / <i>GAS thread</i> / <i>Gasgewinde (BSP)</i>
...XTM	-Versione filetto metrico / <i>Metric thread</i> / <i>Metrisches Gewinde</i>

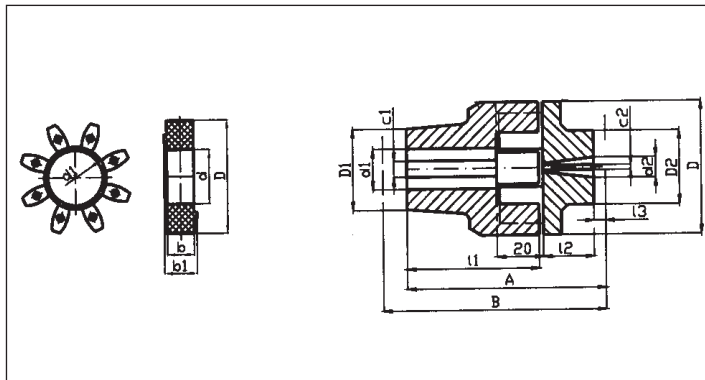
LANTERNA PER MOTORE ELETTRICO  
 BELLHOUSING FOR MOTOR FLANGE  
 RECHTECKPUMPENTRÄGER FÜR MOTOREN BAUFORM



MOTORE IEC DIN 42677 CON FLANGIA DIN 43948 / MOTOR -WITH FLANGE-MIT FLANSCH			
ART	MISURE SIZE GRÖSSEN	POTENZA kW POWER kW REV. kW	ATTACCO SHAFT ENDE
HL801	80	0,55-0,75	19X40
HL802	80	0,55-0,75	19X40
HL803	80	0,55-0,75	19X40
HL804	80	0,55-0,75	19X40
HL901	90	1,1-1,5	24X50
HL902	90	1,1-1,5	24X50
HL903	90	1,1-1,5	24X50
HL904	90	1,1-1,5	24X50
HL100L1	100	2,2-4	28X60
HL100L2	100	2,2-4	28X60
HL100L3	100	2,2-4	28X60
HL100L4	100	2,2-4	28X60

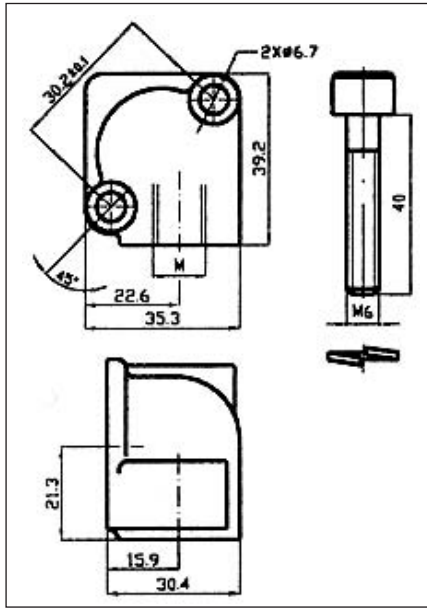
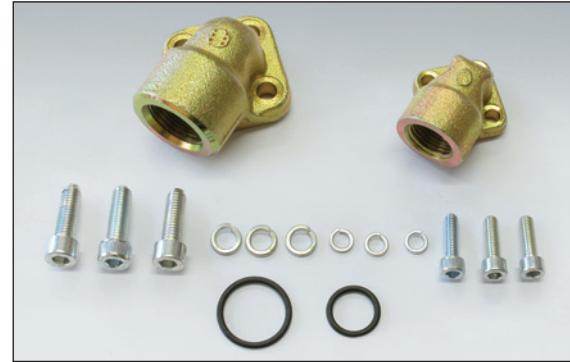
ART	DIMENSIONI / DIMENSIONS / ABMESSUNGEN																
	PARTE MOTORE / MOTOR SIDE / MOTOR SEITE								PARTE POMPA / PUMP SIDE / PUMPENSEITE								
	A	B	C	D	L	O	M	W	P	Q	R	H	T	J	d	G	GRUP.
HL801	200	165	130	130	98	18	M10	5	120	90	43	72	52,4	26,2	25,4	M6	1
HL802	200	165	130	130	98	18	M10	5	120	90	43	73	56	24,5	30	M6	1
HL803	200	165	130	130	98	18	M10	5	120	90	43	96	71,5	32,5	36,5	M8	2
HL804	200	165	130	130	98	18	M10	5	120	90	43	100	72	34,5	80	M8	2
HL901	200	165	130	130	98	18	M10	5	120	90	43	72	52,4	26,2	25,4	M6	1
HL902	200	165	130	130	98	18	M10	5	120	90	43	73	56	24,5	30	M6	1
HL903	200	165	130	130	98	18	M10	5	120	90	43	96	71,5	32,5	36,5	M8	2
HL904	200	165	130	130	98	18	M10	5	120	90	43	100	72	34,5	80	M8	2
HL100L1	250	215	180	190	110	22	M12	5	120	90	43	72	52,4	26,2	25,4	M6	1
HL100L2	250	215	180	190	110	22	M12	5	120	90	43	73	56	24,5	30	M6	1
HL100L3	250	215	180	190	110	22	M12	5	120	90	43	96	71,5	32,5	36,5	M8	2
HL100L4	250	215	180	190	110	22	M12	5	120	90	43	100	72	34,5	80	M8	2



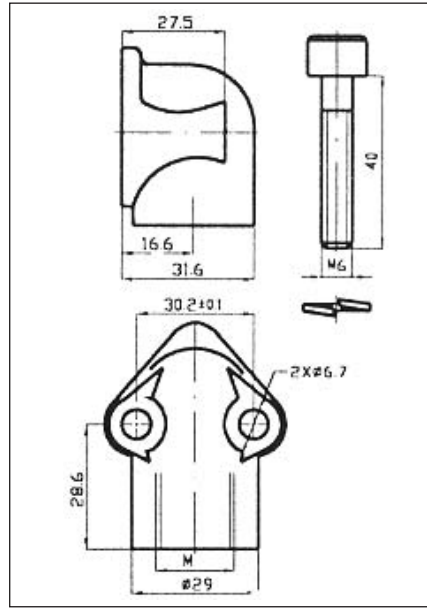
GIUNTI ELASTICI  
DRIVE COUPLING  
KUPPLUNGEN

ART	D	D1	D2	d	d1	d2	l1	l2	C1	C2	A	B	b	b1
<b>HG3190</b>	62,5	38	-		19	19	64,5	-	6	-	98	-		
<b>HG3240</b>	62,5	46	-		24	24	64,5	-	8	-	98	-		
<b>HG3280</b>	62,5	46	-		28	28	77	-	8	-	-	110		
<b>HG301A</b>	62,5	-	34,5		-	-	-	24	-	2,4	97	110		
<b>HG302A</b>	62,5	-	34,5		-	-	-	24	-	3,2	98	110		
<b>HGER300</b>	62,5			30	34,5								15	18,2

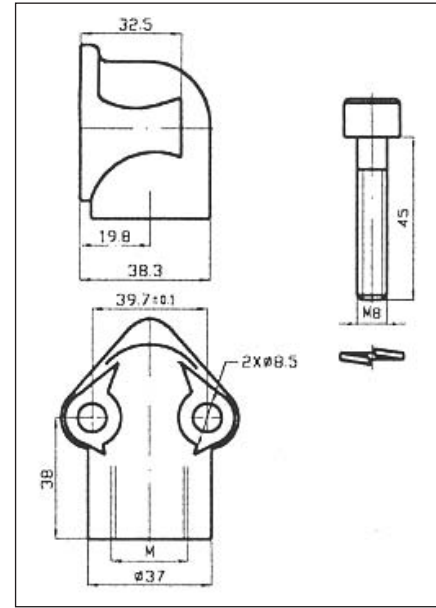
## FLANGE PER POMPE FLANGES FOR PUMPS FLANSCH FÜR PUMPEN



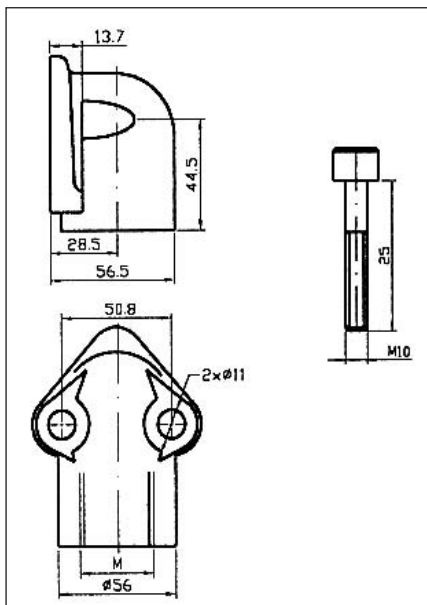
ART	M
<b>HF1M12</b>	M12X1,5
<b>HF1G14</b>	G 1/4"
<b>HF1G38</b>	G 3/8"



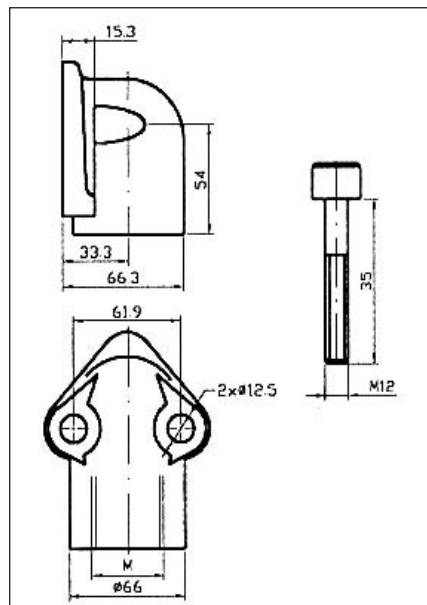
ART	M
<b>HF2M18</b>	M18X1,5
<b>HF2G12</b>	G 1/2"



ART	M
<b>HF3M22</b>	M22X1,5
<b>HF3G34</b>	G 3/4"

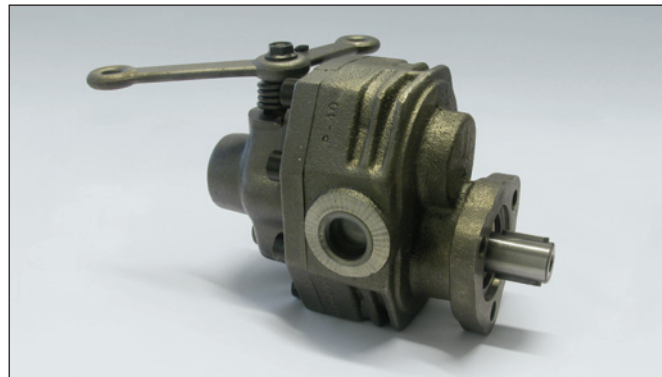
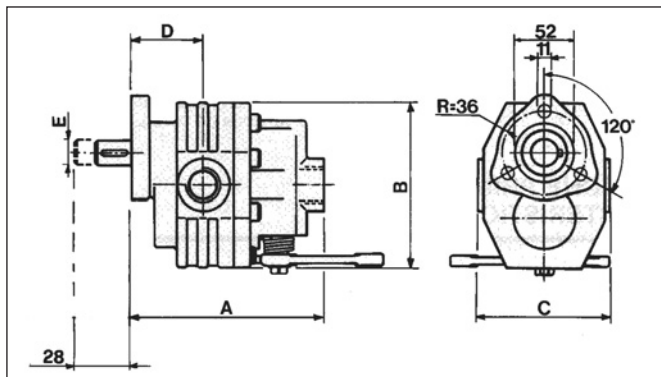


ART	M
<b>HF35M30</b>	M30X2
<b>HF35G1</b>	G 1"



ART	M
<b>HF4M42</b>	M42X2
<b>HF4G1</b>	G 1"

**POMPE AD INGRANAGGI**  
**GEAR PUMPS**  
**ZAHNRADPUMPEN**



ART	A	B	C	D	E	ASPIRAZIONE INLET SAUGLEISTUNG	MANDATA OUTLET UMDREHUNG	ROTAZIONE ROTATION DREHRICHTUNG
<b>MG252/3</b>	169	138	112	64	22	3/4"GAS	3/4"GAS	S-D-SB-DB
<b>MG254/5</b>	186	138	112	67	22	1"GAS	3/4"GAS	S-D-SB-DB

D= destro - right - rechts

S= sinistro - left - links

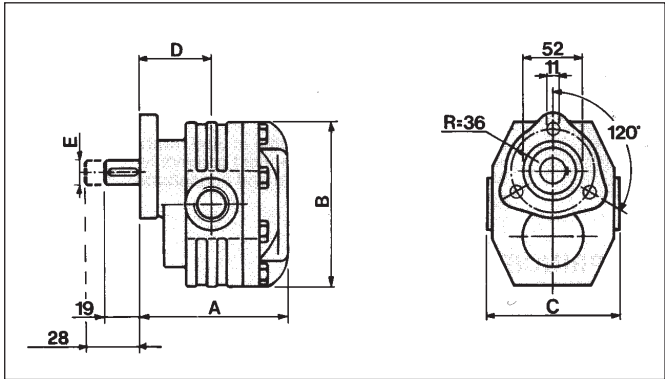
SB= sinistra bilanciata - left balanced - linksdrehend

DB= destra bilanciata - right balanced - rechtsdrehend

ART	CILINDRATA CAPACITY FÖRDER VOLUMEN	MASS. PRESSIONE INTERMITTENTE MAX INTERMITTENT PRESSURE MAX BETRIEBSDRUCK INTERMETIEREND	PRESSIONE DI PUNTA PEAK PRESSURE PUNKTDRUCK	VELOCITA' MIN. PER PRESSIONE P2 MIN SPEED FOR P2 PRESSURE DREHZAHL MIN. DRUCK P2	VELOCITA' MAX PER PRESSIONE P2 MAX SPEED FOR P2 PRESSURE DREHZAHL MAX DRUCK P2	VELOCITA' MAX INTERMITT. A VUOTO MAX INTERMITTENT SPEED WITHOUT LOAD DREHZAHL MAX INTERMETIEREND IM LEEREN 2 USTAND
	CC/GIRO CC/REV.	BAR	BAR	GIRI/MIN. R.P.M.	GIRI/MIN. R.P.M.	GIRI/MIN. R.P.M.
<b>MG252/3</b>	38,4	180	210	350	1800	2100
<b>MG254/5</b>	60	170	200	350	1800	2100



**POMPE AD INGRANAGGI**  
**GEAR PUMPS**  
**ZAHNRADPUMPEN**

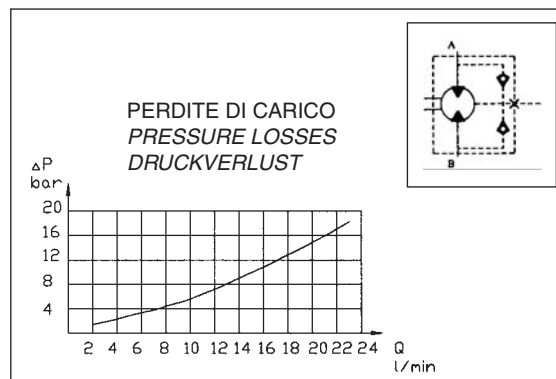
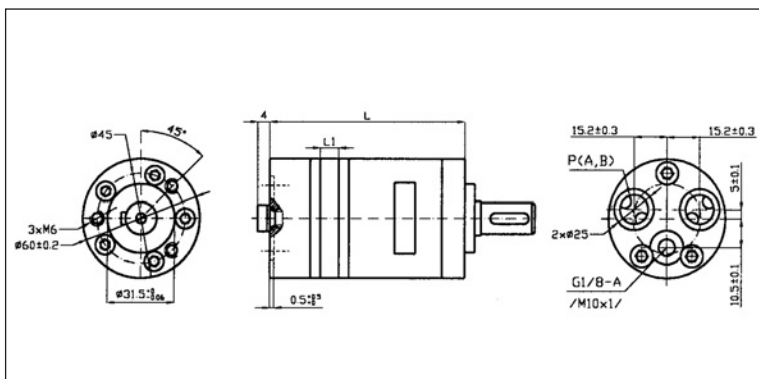


ART	A	B	C	D	E	ASPIRAZIONE INLET SAUGLEISTUNG	MANDATA OUTLET UMDREHUNG	ROTAZIONE ROTATION DREHRICHTUNG
MG255/4	128	138	112	64	22	3/4"GAS	3/4"GAS	SB-DB
MG255/5	144	138	112	67	22	1"GAS	1"GAS	SB-DB
MG255/8	167	166	128	107	22	1"GAS	1"GAS	SB-DB
MG255/9	177	166	128	117	22	1"GAS	1"GAS	SB-DB

SB= sinistra bilanciata - left balanced - linksdrehend  
DB= destra bilanciata - right balanced - rechtsdrehend

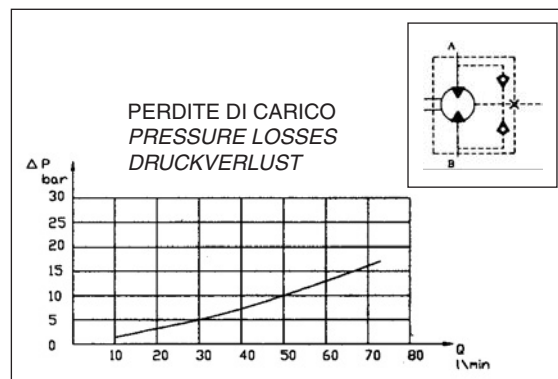
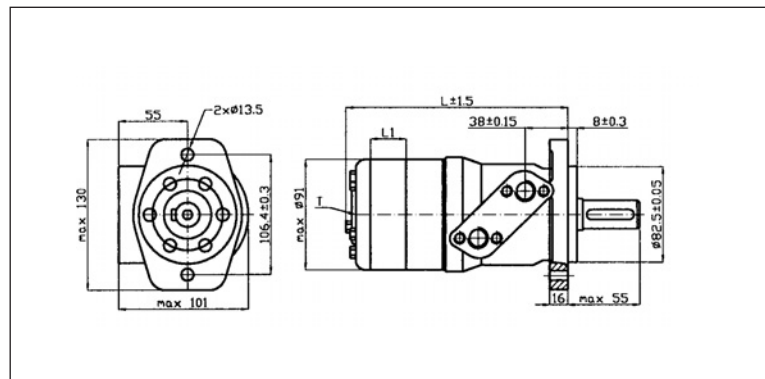
ART	CILINDRATA CAPACITY FÖRDER VOLUMEN	MASS. PRESSIONE INTERMITTENTE MAX INTERMITTENT PRESSURE MAX BETRIEBSDRUCK INTERMETIEREND	PRESSIONE DI PUNTA PEAK PRESSURE PUNKTDRUCK	VELOCITA' MIN. PER PRESSIONE P2 MIN SPEED FOR P2 PRESSURE DREHZAHL MIN. DRUCK P2	VELOCITA' MAX PER PRESSIONE P2 MAX SPEED FOR P2 PRESSURE DREHZAHL MAX DRUCK P2	VELOCITA' MAX INTERMITT. A VUOTO MAX INTERMITTENT SPEED WITHOUT LOAD DREHZAHL MAX INTERMETIEREND IM LEEREN 2 USTAND
	CC/GIRO CC/REV.	BAR	BAR	GIRI/MIN. R.P.M.	GIRI/MIN. R.P.M.	GIRI/MIN. R.P.M.
MG255/4	38,4	180	210	350	1800	2100
MG255/5	60	170	200	350	1800	2100
MG255/8	85,5	150	180	350	1600	1900
MG255/9	104,8	150	180	350	1500	1800

## MOTORI IDRAULICI HMHM HYDRAULIC MOTORS HMHM HYDRAULISCHE MOTOREN HMHM



ART		HMHM08	HMHM125	HMHM20	HMHM32	HMHM40	HMHM50
CILINDRATA DISPLACEMENT SCHLUCKVOLUMEN	cm³/rev	8,2	12,9	20	31,9	40	50
VELOCITA'/SPEED/DREHZAHL	min⁻¹ NOM./NOM./DAUERBETRIEB	1940	1540	1000	620	500	400
	min⁻¹ PICCO/PEAK/SPITZE	2420	1920	1240	785	620	500
COPPIA TORQUE DREHMOMENT	DaNm NOM./NOM./DAUERBETRIEB	1,1	1,6	2,5	4	4,1	4,5
	DaNm min⁻¹ PICCO/PEAK/SPITZE	2,1	3,25	5,1	6,35	6,5	7,9
POTENZA OUTPUT LEISTUNGSABGABE	kW NOM./NOM./DAUERBETRIEB	1,8	2,4	2,4	2,4	1,8	1,7
	kW PICCO/PEAK/SPITZE	2,6	3,2	3,2	3,2	3	2,1
CADUTA DI PRESSIONE PRESSURE DROP DRUCKGEFÄLLE	BAR NOM./NOM./DAUERBETRIEB	100	100	100	100	80	70
	BAR PICCO/PEAK/SPITZE	140	140	140	140	110	90
PORTATA FLOW ÖLSTROM	l/min NOM./NOM./DAUERBETRIEB	16	20	20	20	20	20
	l/min PICCO/PEAK/SPITZE	20	25	25	25	25	25
PRESSIONE IN ENTRATA INLET PRESSURE EINGANGSDRUCK	BAR NOM./NOM./DAUERBETRIEB	140	140	140	140	140	140
	BAR PICCO/PEAK/SPITZE	220	220	220	220	220	220
PRESSIONE DI RITORNO SENZA SCARICO RETURN PRESSURE WITHOUT DRAIN DRUCK AUF DIE WELLENDICHTUNG	0-100 min⁻¹	140	140	140	140	140	140
	100-400 min⁻¹	100	100	100	100	100	100
PRESSIONE CON LINEA DI SCARICO LINE OR PRESSURE IN DRAIN LINE DRUCK IN DER LECKÖLLEITUNG	400-800 min⁻¹	50	50	50	50	50	50
	>800 min⁻¹	20	20	20	-	-	-
	0-MAX.	140	140	140	140	140	140
PRESSIONE DI RITORNO RETURN PRESSURE WITH DRAIN LINE RÜCKLAUFD RUCK LECKÖLLEITUNG	BAR NOM./NOM./DAUERBETRIEB	140	140	140	140	140	140
	BAR PICCO/PEAK/SPITZE	220	220	220	220	220	220
MAX. PRESSIONE DI AVVIO CON ALBERO SCARICO MAX. STARTING PRESSURE WITH UNLOADED SHAFT MAX. ANLAUFD RUCK MIT UNBELASTETER WELLE	BAR	4	4	4	4	4	4
COPPIA DI SPUNTO MIN. MIN. STARTING TORQUE ANLAUFMOMENT	DaNm NOM./NOM./DAUERBETRIEB	0,7	1,2	2,1	3,4	3,3	3,7
	DaNm min⁻¹ PICCO/PEAK/SPITZE	1	1,7	2,9	4,8	4,6	4,8
VELOCITA' MIN./MIN. SPEED /MIN. DREHZAHL	min⁻¹	50	40	30	30	25	20
PESO / WEIGHT / GEWICHT	Kg	1,9	2	2,1	2,2	2,3	2,5
L	mm	104	106	109	114	117,5	121,5
L1	mm	3,5	5,5	8,5	13,5	17	21

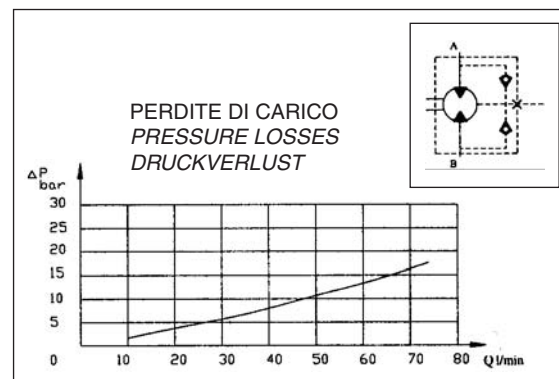
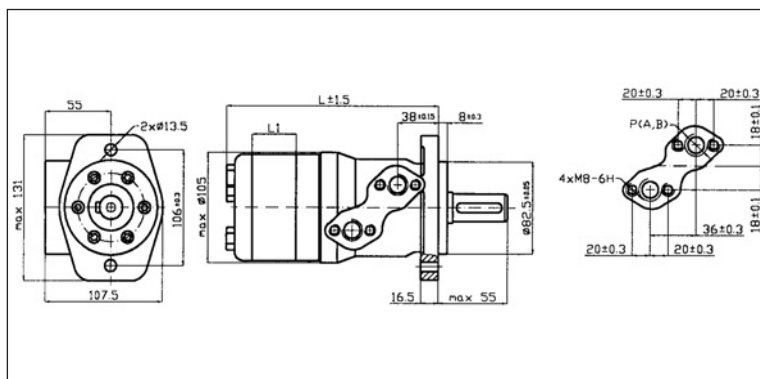
## MOTORI IDRAULICI HMHP HYDRAULIC MOTORS HMHP HYDRAULISCHE MOTOREN HMHP



ART		HMHP50	HMHP80	HMHP100	HMHP125	HMHP160	HMHP200	HMHP250	HMHP315
CILINDRATA DISPLACEMENT SCHLUCKVOLUMEN	cm <sup>3</sup> /rev	49	79	98,5	124	158	197	247	315
VELOCITA'/SPEED/DREHZAHL	min <sup>-1</sup> NM./NOM./DAUERBETRIEB	1200	750	600	483	375	300	240	190
	min <sup>-1</sup> PICCO/PEAK/SPITZE	1510	940	750	600	470	380	300	240
COPPIA TORQUE DREHMOMENT	DaNm NOM./NOM./DAUERBETRIEB	9	15	19	23	31	36	46	48
	DaNm min <sup>-1</sup> PICCO/PEAK/SPITZE	14,4	22,3	27,3	36,3	43,6	54,7	68,3	84
POTENZA OUTPUT LEISTUNGSABGABE	kW NOM./NOM./DAUERBETRIEB	10	10,5	10,6	10,2	10	10	9,8	7
	kW PICCO/PEAK/SPITZE	12	12,3	12,5	12,1	12	12,1	12	9,1
CADUTA DI PRESSIONE PRESSURE DROP DRUCKGEFÄLLE	BAR NOM./NOM./DAUERBETRIEB	140	140	140	140	140	140	140	120
	BAR PICCO/PEAK/SPITZE	220	220	220	220	220	220	220	215
PORTATA FLOW ÖLSTROM	l/min NOM./NOM./DAUERBETRIEB	60	60	60	60	60	60	60,6	60,6
	l/min PICCO/PEAK/SPITZE	75	75	75	75	75	75	75	75
PRESSIONE IN ENTRATA INLET PRESSURE EINGANGSDRUCK	BAR NOM./NOM./DAUERBETRIEB	175	175	175	175	175	175	175	175
	BAR PICCO/PEAK/SPITZE	220	220	220	220	220	220	220	220
PRESSIONE DI RITORNO SENZA SCARICO RETURN PRESSURE WITHOUT DRAIN DRUCK AUF DIE WELLENDICHTUNG	0-100 min <sup>-1</sup>	150	150	150	150	150	150	150	150
	100-400 min <sup>-1</sup>	75	75	75	75	75	75	75	75
PRESSIONE CON LINEA DI SCARICO LINE OR PRESSURE IN DRAIN LINE DRUCK IN DER LECKÖLLEITUNG	400-800 min <sup>-1</sup>	50	50	50	50	50	50	-	-
	>800 min <sup>-1</sup>	20	20	20	-	-	-	-	-
	0-MAX.	150	150	150	150	150	150	150	150
PRESSIONE DI RITORNO RETURN PRESSURE WITH DRAIN LINE RÜCKLAUFD RUCK LECKÖLLEITUNG	BAR NOM./NOM./DAUERBETRIEB	175	175	175	175	175	175	175	175
	BAR PICCO/PEAK/SPITZE	220	220	220	220	220	220	220	220
MAX. PRESSIONE DI AVVIO CON ALBERO SCARICO MAX. STARTING PRESSURE WITH UNLOADED SHAFT MAX. ANLAUFD RUCK MIT UNBELASTETER WELLE	BAR	10	10	10	9	8	7	6	5
COPPIA DI SPUNTO MIN. MIN. STARTING TORQUE ANLAUFMOMENT	DaNm NOM./NOM./DAUERBETRIEB	8,0	13	16	20	28	32	43	46
	DaNm min <sup>-1</sup> PICCO/PEAK/SPITZE	10,2	17	20	30	35	41	53	60
VELOCITA' MIN./MIN. SPEED /MIN. DREHZAHL	min <sup>-1</sup>	10	10	10	10	10	10	10	10
PESO / WEIGHT / GEWICHT	Kg	5,7	5,8	6	6,1	6,3	6,5	6,7	7
L	mm	135,1	139,1	141,1	145,1	149,8	155,1	161,8	171,1
L1	mm	6,67	10,67	13,33	16,67	21,33	26,67	33,33	42,67

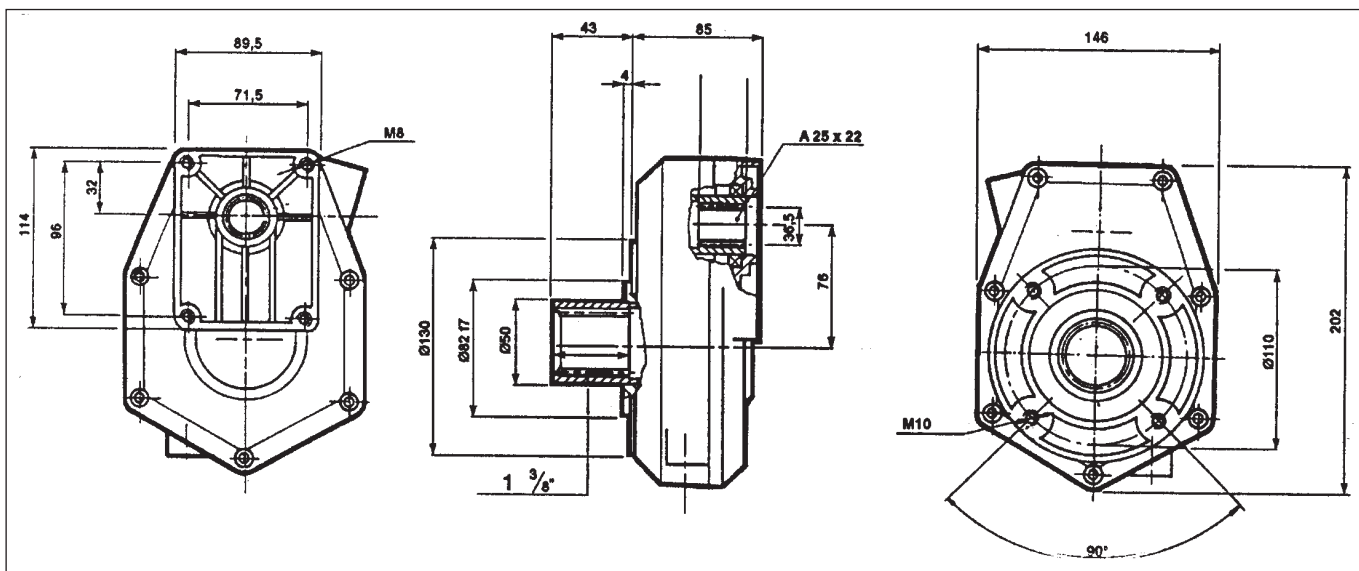
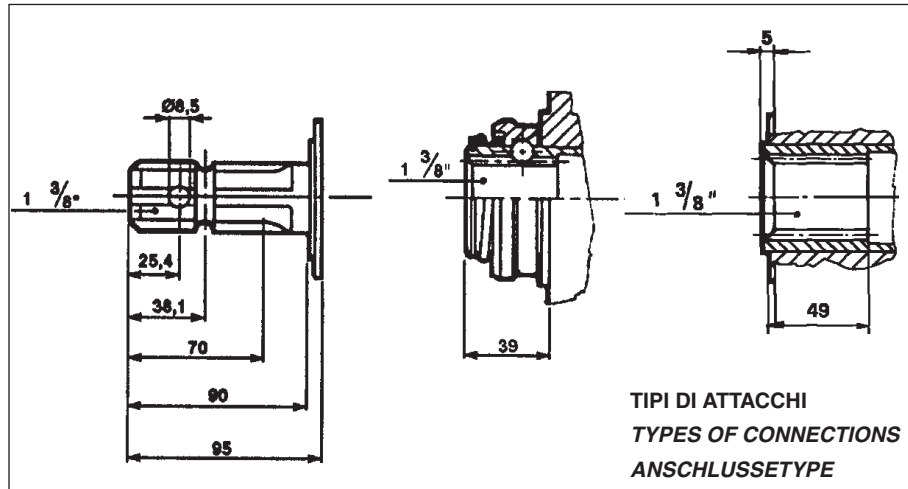
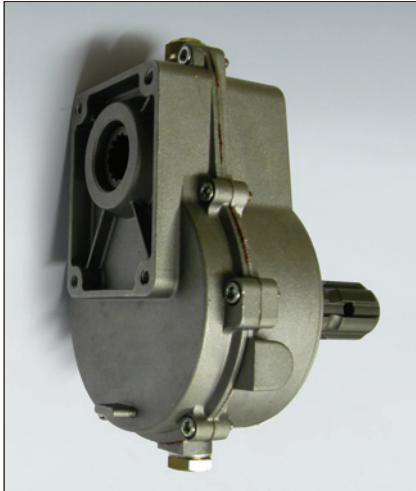


**MOTORI IDRAULICI HMHR**  
**HYDRAULIC MOTORS HMHR**  
**HYDRAULISCHE MOTOREN HMHR**



ART		HMHR50	HMHR80	HMHR100	HMHR160	HMHR200	HMHR250	HMHR315	HMHR400
CILINDRATA DISPLACEMENT SCHLUCKVOLUMEN	cm <sup>3</sup> /rev	51,6	80,3	99,8	160	199,8	250	315,7	396
VELOCITA'/SPEED/DREHZAHL	min <sup>-1</sup> NOM./NOM./DAUERBETRIEB	755	750	600	372	300	240	190	150
	min <sup>-1</sup> PICCO/PEAK/SPITZE	970	940	750	472	375	300	240	190
COPPIA TORQUE DREHMOMENT	DaNm NOM./NOM./DAUERBETRIEB	10	19	24	38	40	51	50	60
	DaNm min <sup>-1</sup> PICCO/PEAK/SPITZE	17	27	32	46	56	70	82	86
POTENZA OUTPUT LEISTUNGSABGABE	kW NOM./NOM./DAUERBETRIEB	7	12	12,5	11	10	9	8	7
	kW PICCO/PEAK/SPITZE	8,5	14,8	14,8	13,8	12,9	11,8	10,9	10,5
CADUTA DI PRESSIONE PRESSURE DROP DRUCKGEFÄLLE	BAR NOM./NOM./DAUERBETRIEB	140	160	160	160	160	160	125	110
	BAR PICCO/PEAK/SPITZE	175	180	180	180	180	180	140	120
PORTATA FLOW ÖLSTROM	l/min NOM./NOM./DAUERBETRIEB	40	60	60	60	60	60	60	60
	l/min PICCO/PEAK/SPITZE	50	75	75	75	75	75	75	75
PRESSIONE IN ENTRATA INLET PRESSURE EINGANGSDRUCK	BAR NOM./NOM./DAUERBETRIEB	170	170	170	170	170	170	170	170
	BAR PICCO/PEAK/SPITZE	190	190	190	190	190	190	190	190
PRESSIONE DI RITORNO SENZA SCARICO RETURN PRESSURE WITHOUT DRAIN DRUCK AUF DIE WELLENDICHTUNG	0-100 min <sup>-1</sup>	140	140	140	140	140	140	140	140
	100-400 min <sup>-1</sup>	75	75	75	75	75	75	75	75
	400-800 min <sup>-1</sup>	50	50	50	50	50	50	-	-
PRESSIONE CON LINEA DI SCARICO LINE OR PRESSURE IN DRAIN LINE DRUCK IN DER LECKÖLLEITUNG	>800 min <sup>-1</sup>	20	20	20	-	-	-	-	-
	0-MAX.	140	140	140	140	140	140	140	140
PRESSIONE DI RITORNO RETURN PRESSURE WITH DRAIN LINE RÜCKLAUFD RUCK LECKÖLLEITUNG	BAR NOM./NOM./DAUERBETRIEB	170	170	170	170	170	170	170	170
	BAR PICCO/PEAK/SPITZE	220	220	220	220	220	220	220	220
MAX. PRESSIONE DI AVVIO CON ALBERO SCARICO MAX. STARTING PRESSURE WITH UNLOADED SHAFT MAX. ANLAUFD RUCK MIT UNBELASTETER WELLE	BAR	10	10	10	7	5	4	4	4
COPPIA DI SPUNTO MIN. MIN. STARTING TORQUE ANLAUFMOMENT	DaNm NOM./NOM./DAUERBETRIEB	8	14	19	31	40	49	49	48
	DaNm min <sup>-1</sup> PICCO/PEAK/SPITZE	10	16	22	36	45	54	65	60
VELOCITA' MIN./MIN. SPEED /MIN. DREHZAHL	min <sup>-1</sup>	10	10	10	9	9	8	8	8
PESO / WEIGHT / GEWICHT	Kg	6,7	6,8	7,1	7,4	7,9	8,3	9	9,7
L	mm	138	143	146,4	156,8	163,8	172,5	183,5	198,4
L1	mm	9	14	17,4	27,8	34,8	43,5	54,8	69,4

**MOLTIPLICATORI PER POMPE IDRAULICHE GRUPPO 2**  
**PUMPS OVERDRIVE GROUP 2**  
**GETRIEBE HYDRAULISCHER PUMPEN GRUPPE 2**



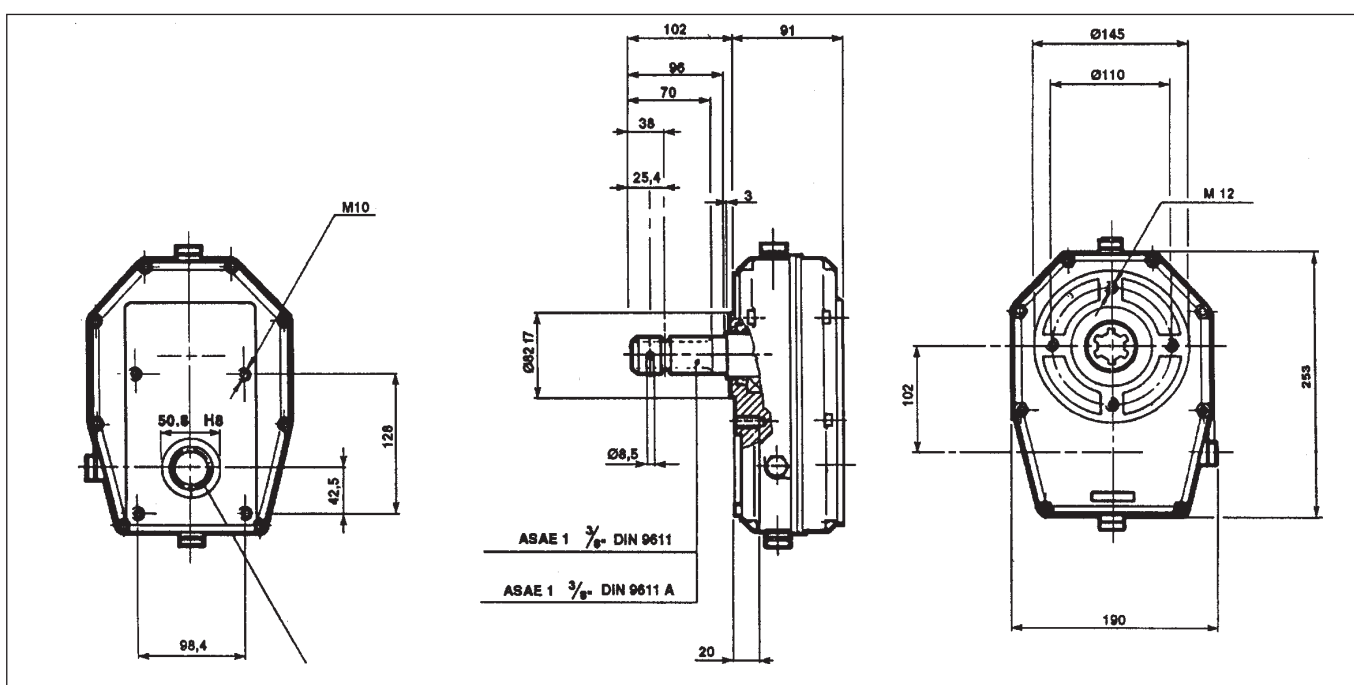
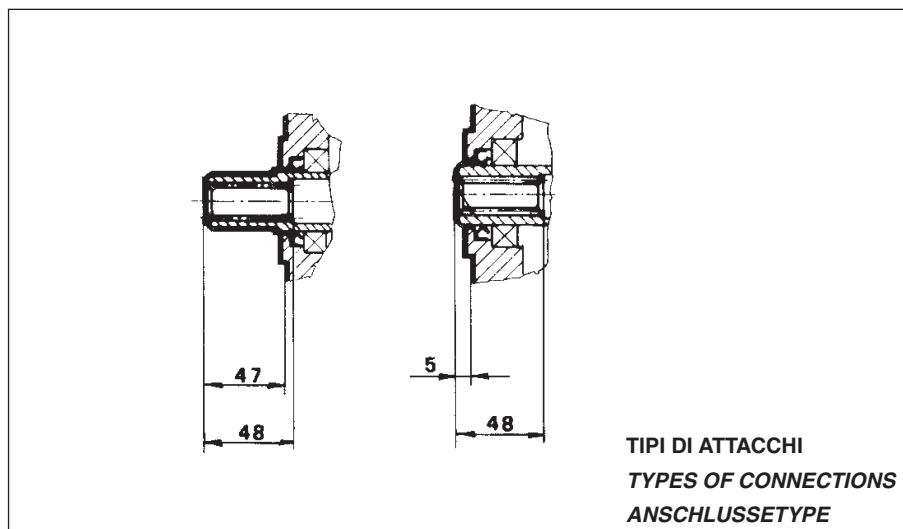
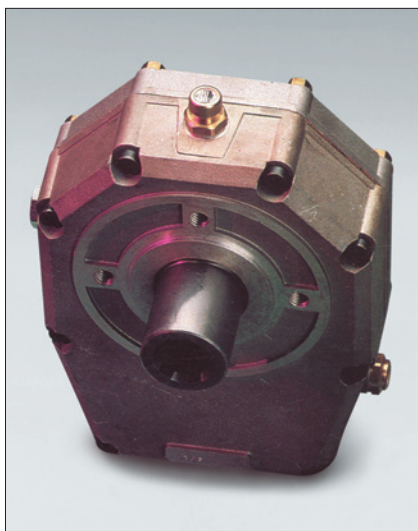
ART	ATTACCO CONNECTION ANSCHLUSS	RAPPORTO RATIO GANG	N°1 giri/min N. 1 rpm N. 1 um/min	N°2 giri/min N. 2 rpm N. 2 um/min
HMGR2M13	1"3/8 MASCHIO	1:3	540	1.680
HMGR2F13	1"3/8 FEMMINA	1:3	540	1.680
HMGR2FR13	1"3/8 FEMMINA INNESTO RAPIDO	1:3	540	1.680
HMGR2M135	1"3/8 MASCHIO	1:3,5	540	1836
HMGR2F135	1"3/8 FEMMINA	1:3,5	540	1836
HMGR2FR135	1"3/8 FEMMINA INNESTO RAPIDO	1:3,5	540	1836
HMGR2M138	1"3/8 MASCHIO	1:3,8	540	2052
HMGR2F138	1"3/8 FEMMINA	1:3,8	540	2052
HMGR2FR138	1"3/8 FEMMINA INNESTO RAPIDO	1:3,8	540	2052

Temperatura d'esercizio: non deve superare i 120° C. Lubrificazione: olio tipo SAE90. Primo cambio d'olio dopo 60-80 ore di funzionamento. Il regime d'uscita non deve superare i 3000 giri al minuto.

Working temperature: Should not exceed 120°C. Lubrication: Oil type SAE90. First oil change after 60-80 working hours. Overgear output speed does not exceed 3000 RPM.

Betriebstemperatur: Die Betriebstemperatur bei Dauerbetrieb darf 120°C nicht überschreiten. Schmieröl SAE90. Der erste Ölwechsel muss nach 60-80 Betriebsstunden erfolgen. Die Antriebsdrehzahl 3000 U/min nicht überschreiten darf.

**MOLTIPLICATORI PER POMPE IDRAULICHE GRUPPO 3**  
**PUMPS OVERDRIVE GROUP 3**  
**GETRIEBE HYDRAULISCHER PUMPEN GRUPPE 3**



ART	ATTACCO CONNECTION ANSCHLUSS	RAPPORTO RATIO GANG	N°1 giri/min N. 1 rpm N. 1 um/min	N°2 giri/min N. 2 rpm N. 2 um/min
HMGR3M13	1"3/8 MASCHIO	1:3	540	1.680
HMGR3F13	1"3/8 FEMMINA	1:3	540	1.680
HMGR3M135	1"3/8 MASCHIO	1:3,5	540	1836
HMGR3F135	1"3/8 FEMMINA	1:3,5	540	1836
HMGR3M138	1"3/8 MASCHIO	1:3,8	540	2057
HMGR3F138	1"3/8 FEMMINA	1:3,8	540	2057

Temperatura d'esercizio: non deve superare i 120° C. Lubrificazione: olio tipo SAE90. Primo cambio d'olio dopo 60-80 ore di funzionamento. Il regime d'uscita non deve superare i 3000 giri al minuto.

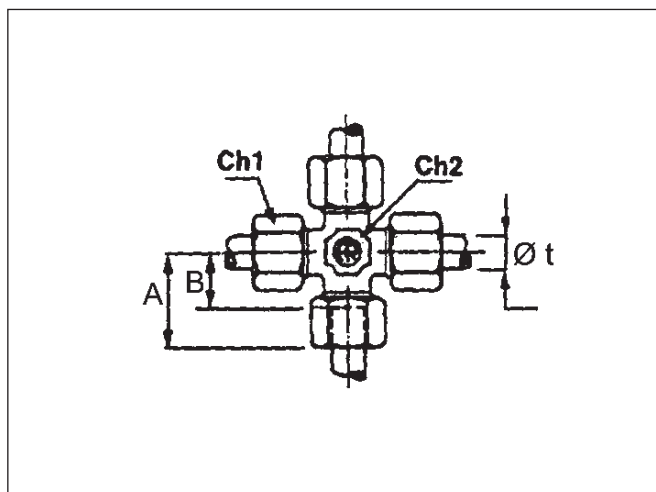
Working temperature: Should non exceed 120°C. Lubrication: Oil type SAE90. First oil change after 60-80 working hours. Overgear output speed does not exceed 3000 RPM.

Betriebstemperatur: Die Betriebstemperatur bei Dauerbetrieb darf 120°C nicht überschreiten. Schmieröls SAE90. Der erste Ölwechsel muss nach 60-80 Betriebsstunden erfolgen. Die Antriebsdrehzahl 3000 U/min nicht überschreiten darf.



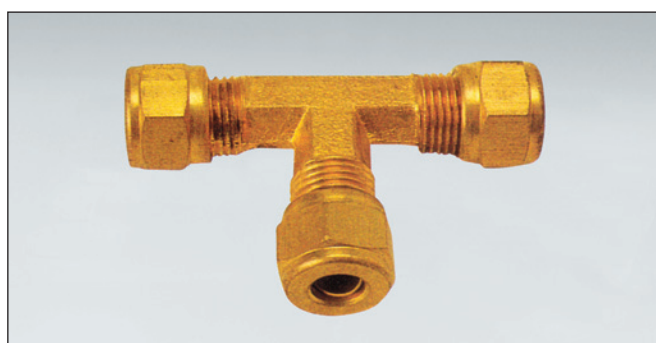
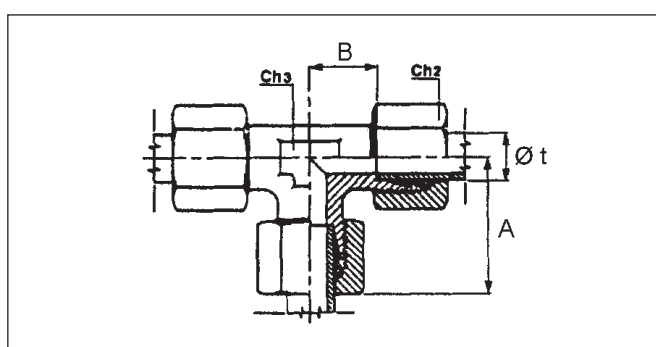
**RACCORDO INTERMEDIO A CROCE SERIE "L"**  
**CROSS-COUPLING "L" SERIES**  
**KREUZ-VERSCHRAUBENGEN "L" SERIEN**

ART	Ø TUBO Ø PIPE Ø ROHR	A	B	Ch1	Ch2
HRCFT06	6	27	12	14	12
HRCFT08	8	29	14	17	12
HRCFT10	10	30	15	19	14
HRCFT12	12	32	17	22	17
HRCFT15	15	36	21	27	19



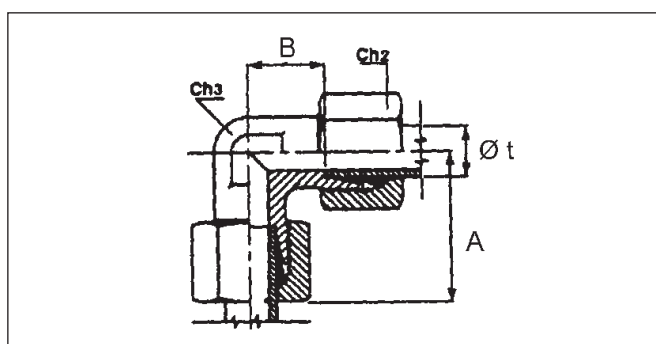
**RACCORDO INTERMEDIO A T - SERIE "L"**  
**T COUPLING "L" SERIES**  
**WINKEL-VERSCHRAUBENGEN "L" SERIEN**

ART	Ø TUBO Ø PIPE Ø ROHR	A	B	Ch2	Ch3
HRTFT06	6	27	12	14	12
HRTFT08	8	29	15	17	12
HRTFT10	10	30	15	19	14
HRTFT12	12	32	17	22	17
HRTFT15	15	36	21	27	19



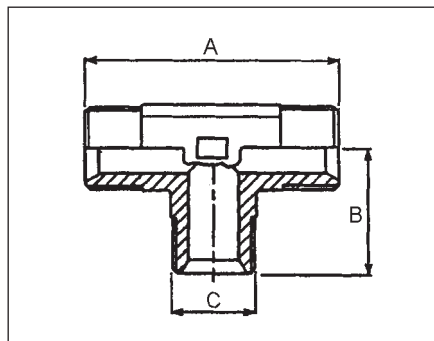
**RACCORDO INTERMEDIO A L - SERIE "L"**  
**L COUPLING "L" SERIES**  
**L WINKELVERSCHRAUBENGEN "L" SERIEN**

ART	Ø TUBO Ø PIPE Ø ROHR	A	B	Ch2	Ch3
HRLFT06	6	27	12	14	12
HRLFT08	8	29	15	17	12
HRLFT10	10	30	15	19	14
HRLFT12	12	32	17	22	17
HRLFT15	15	36	21	27	19



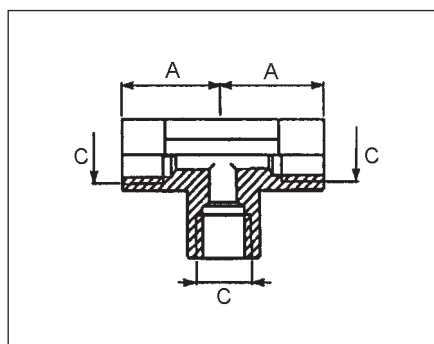
**ADATTATORE A T CON ATTACCO FILETTATO MASCHIO**  
**T ADAPTOR WITH MALE THREADED CONNECTOR**  
**T VERSCHRAUBUNG STECKER**

ART	A	B	C
HATM04	1/4"	54	27
HATM06	3/8"	60	30
HATM08	1/2"	70	35
HATM12	3/4"	86	43



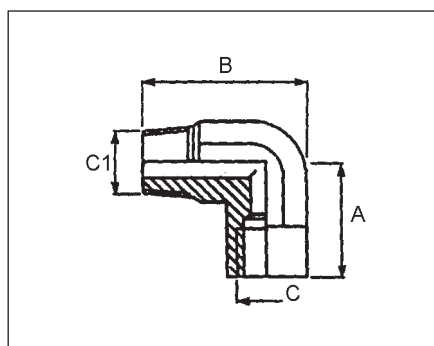
**ADATTATORE A T CON ATTACCO FILETTATO FEMMINA**  
**T ADAPTOR WITH FEMALE THREADED CONNECTOR**  
**T VERSCHRAUBUNG MUFFE**

ART	C	A
HATF04	1/4"	23
HATF06	3/8"	26
HATF08	1/2"	31
HATF12	3/4"	36



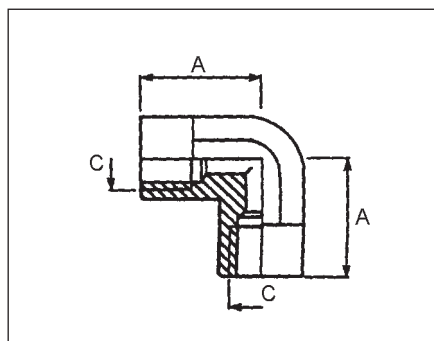
**ADATTATORE A L CON ATTACCO FILETTATO MASCHIO-FEMMINA**  
**L ADAPTOR WITH MALE-FEMALE THREADED CONNECTOR**  
**L WINKELVERSCHRAUBUNG STECKER-MUFFE**

ART	C1-C	A	B
HALM04F04	1/4"	23	28
HALM06F06	3/8"	26	31
HALM08F08	1/2"	31	37
HALM12F12	3/4"	35	41

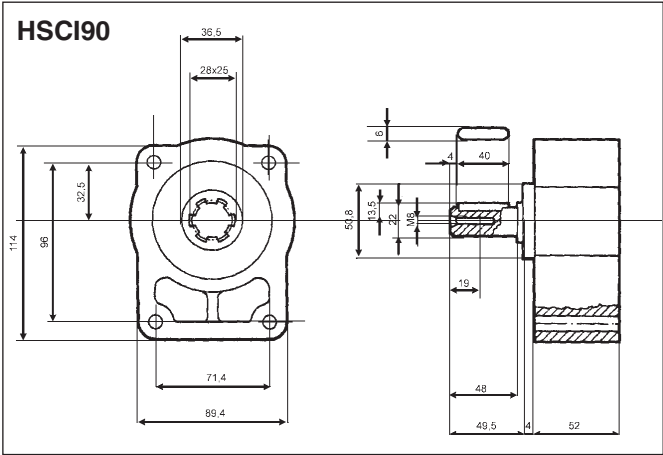
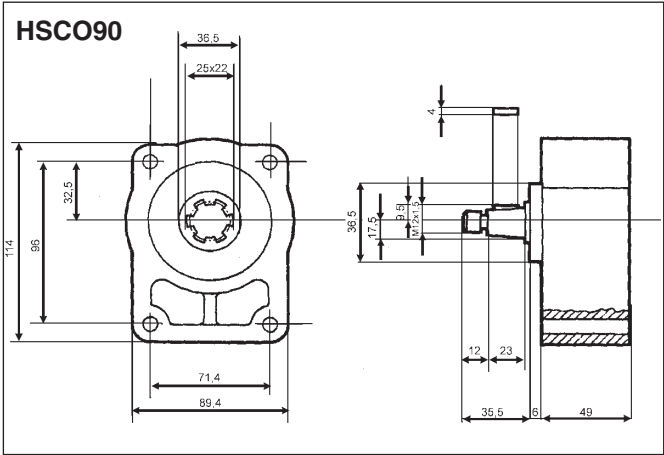


**ADATTATORE A L CON ATTACCO FILETTATO FEMMINA**  
**L ADAPTOR WITH FEMALE THREADED CONNECTOR**  
**L WINKELVERSCHRAUBUNG MUFFE**

ART	A	B
HALF04	1/4"	23
HALF06	3/8"	26
HALF08	1/2"	31
HALF12	3/4"	35



SUPPORTI TIROCINGHIA PER POMPE GRUPPO 2  
SUPPORTS FOR PUMPS GROUP 2  
PUMPENHALTERUNG GR. 2



ART	DESCRIZIONE DESCRIPTION BESCHREIBUNG
HSCO90	CON ALBERO CARDANICO WITH P.T.O. SHAFT MIT ANTRIEBSWELLE
HSCI90	CON ALBERO CILINDRICO WITH CYLINDRICAL P.T.O. SHAFT MIT ZYLINDRISCHER ANTRIEBSWELLE
HSGA90	GIUNTO DI ACCOPPIAMENTO POMPA-SUPPORTO DOUBLE COUPLING FOR PUMP SUPPORT VERBUNDUNGSKUPPLUNG FÜR PUMPENLAGER

TABELLA IDENTIFICAZIONE CODICI SEZIONE H					
M 6X1	--> 46	1/8"	--> 02	3/16"	--> 35
M 8X1	--> 48	1/4"	--> 04	1/16"	--> 36
M 10X1	--> 50	3/8"	--> 06	9/16"	--> 34
M 12X1,5	--> 52	1/2"	--> 08	5/16"	--> 05
M 14X1,5	--> 54	5/8"	--> 10		
M 16X1,5	--> 56	3/4"	--> 12		
M 18X1,5	--> 58	1"	--> 16		
M 20X1,5	--> 60	1 1/4"	--> 20		
M 22X1,5	--> 62	1 1/2"	--> 24		
M 26X1,5	--> 64	2"	--> 32		