



 **YOKOHAMA**

FB
Hydraulic

Dry-Fit
Dry-Spiral
Hydraulic hoses



website: www.fb-channel.net

Edition: 2017

The future follows Us

F.B. Hydraulic is a leading company in the production of hydraulic fittings, assembled hoses and rigid pipes.

F.B. Hydraulic, azienda leader nella produzione di raccorderia per oleodinamica, nell'assemblaggio di tubi flessibili raccordati e tubi rigidi sagomati.

**DRY-FIT FITTINGS
RACCORDI DRY-FIT**



**ASSEMBLED HOSES
TUBI FLESSIBILI RACCORDATI**



**DRY SPIRAL FITTINGS
RACCORDI DRY SPIRAL**



**RIGID PIPES
TUBI RIGIDI SAGOMATI**



**YOKOHAMA HYDRAULIC HOSES
TUBI IDRAULICI YOKOHAMA**



**ASSEMBLED PARTS
PARTI ASSEMBLATE**



TECHNICAL SHEETS

TECHNICAL SHEETS
SCHEDE TECNICHE



METRIC - METRICO 24°

LIGHT - SERIE LEGGERA



Thread
Filettatura

Nm

Working pressure
Pressione di esercizio
DIN2353

12 x 1,5	20	250
14 x 1,5	25	250
16 x 1,5	35	250
18 x 1,5	40	250
22 x 1,5	50	250
26 x 1,5	60	160
30 x 2	80	160
36 x 2	140	100
45 x 2	175	100
52 x 2	190	100

HEAVY - SERIE PESANTE



Thread
Filettatura

Nm

Working pressure
Pressione di esercizio
DIN2353

14 x 1,5	30	630
16 x 1,5	30	630
18 x 1,5	40	630
20 x 1,5	50	630
22 x 1,5	60	630
24 x 1,5	80	400
30 x 2	100	400
36 x 2	160	400
42 x 2	165	250
52 x 2	180	250

BSP 60°



Thread
Filettatura

Nm

Working pressure
Pressione di esercizio
ISO 8434

1/8-28	15	350
1/4-19	40	350
3/8-19	50	350
1/2-14	60	315
5/8-14	65	315
3/4-14	80	250
1"-11	140	200
1"1/4-11	165	160
1"1/2-11	180	125

JIC 37°



Thread
Filettatura

Nm

Working pressure
Pressione di esercizio
SAEJ 514

7/16-20	20	310
1/2-20	32	276
9/16-18	40	276
3/4-16	50	276
7/8-14	65	210
1"1/16-12	70	210
1"3/16-12	90	210
1"5/16-12	160	170
1"5/8-12	170	140
1"7/8-12	180	105

ORFS



Thread
Filettatura

Nm

Working pressure
Pressione di esercizio
SAEJ 1453

9/16-18	40	413
11/16-16	70	413
13/16-16	80	413
1"-14	100	413
1"3/16-12	130	413
1"7/16-12	170	345
1"11/16-12	200	345
2"-12	260	275

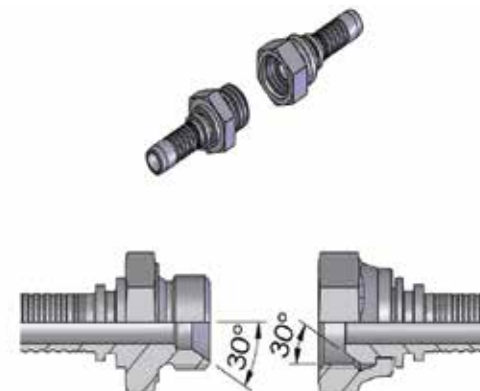
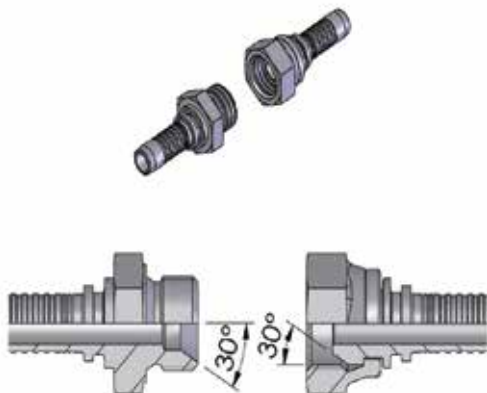
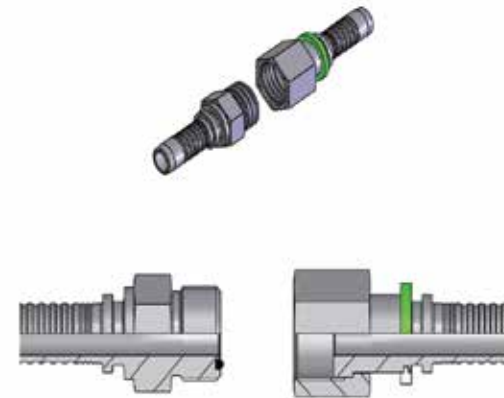
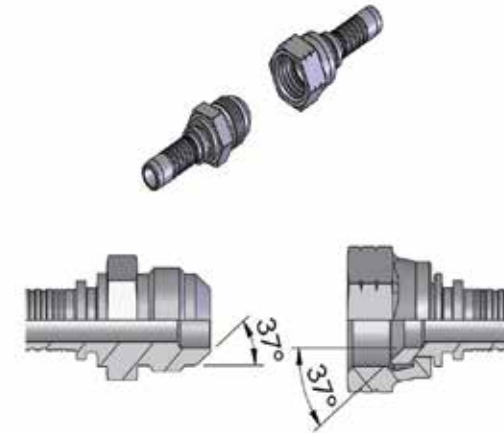
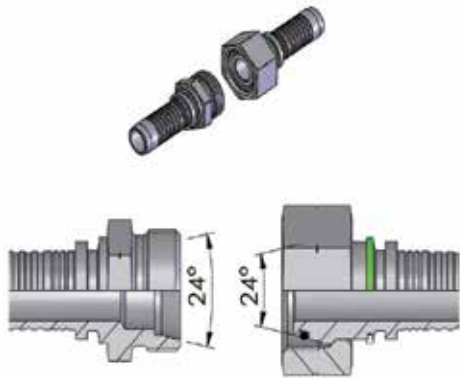
METRIC - METRICO 60°

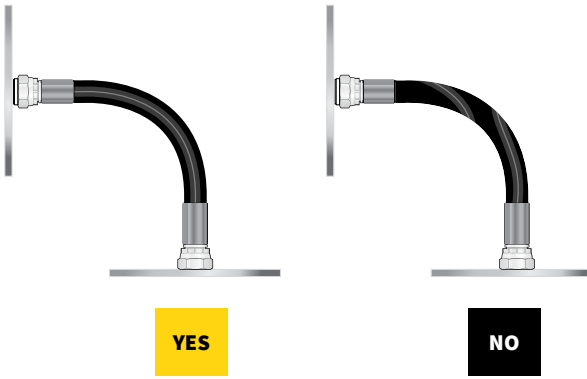


Thread
Filettatura

Nm

M10X1	10
M12X1,5	20
M14X1,5	45
M16X1,5	55
M18X1,5	70
M20X1,5	80
M22X1,5	80
M26X1,5	80
M30X1,5	100



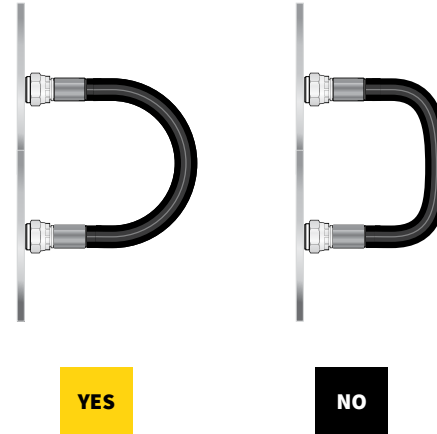


TORSION

Avoid twisting the hose. Hoses must be installed in such a way that there are no harsh conditions that may reduce the normal life of the hose.

TORSIONE

Evitare qualsiasi tipo di torsione. È importante accertarsi che non si verifichino situazioni gravose che possano compromettere e ridurre la normale durata del flessibile.

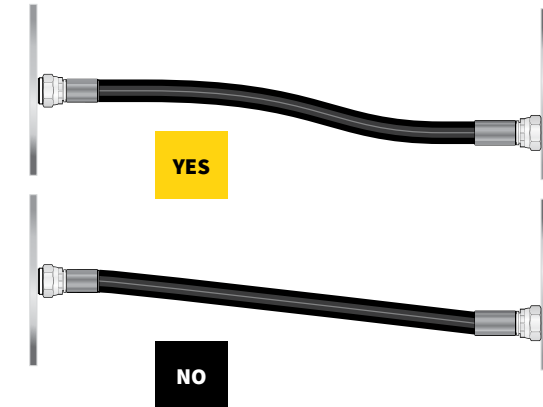


BENDING RADIUS

Check that the hose, when installed, has not a smaller bending radius than reported in the respective data sheet.

RAGGIO DI CURVATURA

Controllare che il flessibile, non operi ad un raggio di curvatura minore rispetto a quello riportato nella rispettiva scheda tecnica.

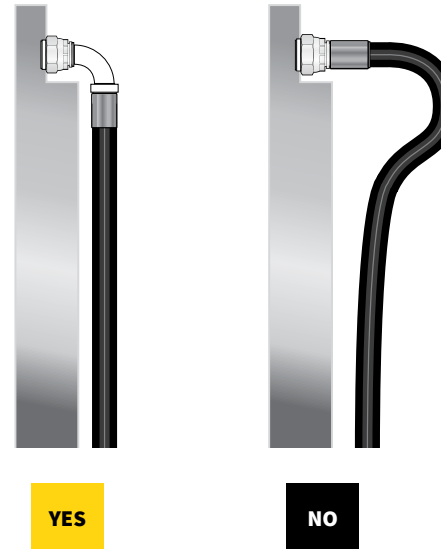


LENGTH VARIATIONS

Do not install the hose too tightly. During the aging process and various movements there can occur length variations. It is appropriate to calculate a length slightly bigger than requested. We remind you that the DIN and SAE provide that the hose under pressure can get longer (max 2%) or even shorter (max 4%).

VARIAZIONE DI LUNGHEZZA

Evitare montaggi in tensione. Nel tempo e durante i vari movimenti si possono verificare delle variazioni di lunghezza. È opportuno calcolare una lunghezza leggermente superiore a quella teorica. Le norme DIN e SAE prevedono che il tubo sottoposto alla pressione di esercizio possa subire un allungamento (max +2%) o un accorciamento (max -4%).

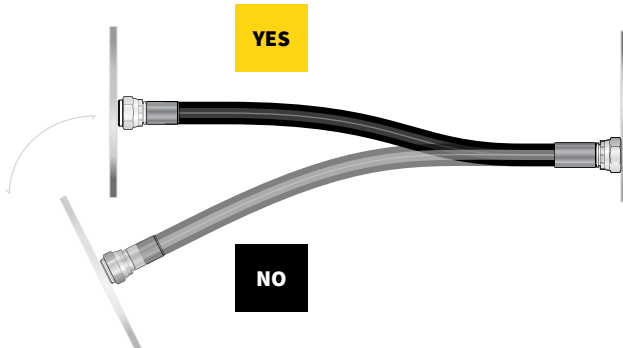


CHOICE OF FITTINGS

We recommend to choose the most appropriate type of fitting in order to eliminate any incorrect positions.

SCelta DEL RACCORDO

Nella scelta del tipo di raccordo è opportuno considerare la tipologia più indicata al fine si eliminare eventuali posizionamenti non corretti.



ASSEMBLED HOSE IN MOTION

In the case of motion, take particularly care to avoid any twisting, tensions or abrasions which are dangerous for the normal operation.

FLESSIBILE IN MOVIMENTO

Nel caso di flessibili in movimento, fare particolare attenzione ad evitare eventuali torsioni, tensioni o abrasioni dannose per il normale funzionamento.

Surface treatment

FB Hydraulic, inside its own R&D department, has installed a test bench to realize salt spray test according to the normative UNI EN ISO 9227 (NNS, neutral salt spray).

FB develops and verifies new types of treatments looking for the continuous improvement of the coefficient of friction, of the distribution, of the thickness of layers and the visual quality of its products.

Zinc coating

The galvanizing process deposits on the steel layers of material which increase the corrosion resistance:

- Zinc deposit
- Passivation CrIII
- Sealer

The total thickness of these deposits is:

- Fittings 8-10 μm
- Ferrules 10-12 μm

Performances

The zinc coating on the surface has the following corrosion resistance, according to UNI ISO 9227:

- MIN 100 h before the appearance of the outbreaks of white corrosion
- MIN 350 h before the appearance of the outbreaks of red corrosion

Trattamento superficiale

FB Hydraulic, all'interno del proprio centro R&D, ha installato un banco prova per realizzare test in nebbia salina in accordo alla normativa UNI EN ISO 9227 (NNS, nebbia salina neutra).

FB sviluppa e verifica nuovi tipi di trattamenti ricercando il miglioramento continuo del coefficiente di attrito, della distribuzione, dello spessore e della qualità visiva dei propri prodotti.

Zincatura

Il processo di zincatura deposita sull'acciaio strati di materiale che aumentano la resistenza alla corrosione:

- Deposito di zinco
- Passivazione cromo trivalente
- Sigillatura

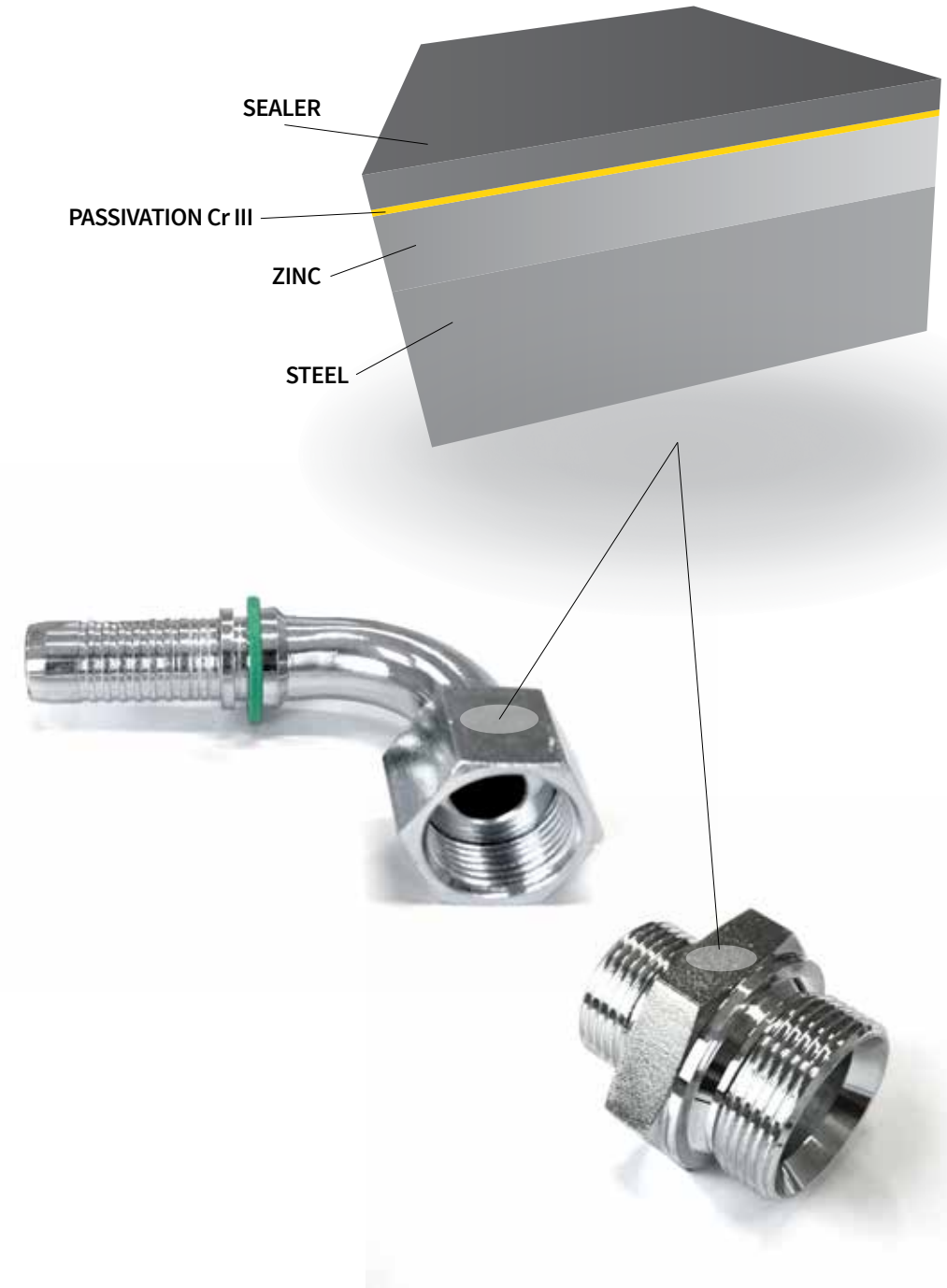
Lo spessore totale di questi depositi è:

- Raccordi 8-10 μm
- Boccole 10-12 μm

Prestazioni

La zincatura superficiale ha la seguente resistenza alla corrosione, secondo UNI ISO 9227:

- MIN 100 h prima della comparsa dei focolai di corrosione bianca
- MIN 350 h prima della comparsa dei focolai di corrosione rossa



CATALOGUE

PRODUCTS CATALOGUE
CATALOGO PRODOTTI

|



Catalogue website: www.fb-channel.net/catalogo.html

**1a DRY-FIT FITTINGS
RACCORDI DRY-FIT**



4

**1d DRY-SPIRAL FITTINGS
RACCORDI DRY-SPIRAL**



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**5a YOKOHAMA EXCEED HOSES
YOKOHAMA TUBI EXCEED**



130

**5b YOKOHAMA HYDRAULIC HOSES
YOKOHAMA TUBO IDRAULICO**



136

DRY-FIT

DRY-FIT is a fitting of recent development, ideal for compact and thermoplastic hoses. In challenging applications and extreme temperature fluctuations it ensures a perfect seal.

The inherent advantages of the DRY-FIT:

- Slows down the aging process and hardening of the inner lining.
- Increases the resistance of the bent hose.
- Eliminates leakage of a cooled hose.
- Easy to crimp.

DRY-FIT è un raccordo di nuova generazione particolarmente adatto per tubi compatti e termoplastici. In applicazioni gravose ed in presenza di variazioni termiche elevate garantisce la perfetta tenuta.

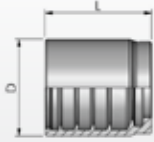
I principali vantaggi del DRY-FIT:

- Rallenta il processo di invecchiamento e indurimento del sottostrato
- Aumenta la resistenza del tubo in flessione
- Elimina i trafiletti a freddo
- Semplifica di pressatura

DRY-FIT FITTINGS
RACCORDI DRY-FIT

1a

BUN



10

NO SKIVE FERRULE UNIFICATED
1/2 SN - 2 SC - 2 SNK
BOCCOLA A PRESSARE UNIFICATA
1/2 SN - 2 SC - 2 SNK

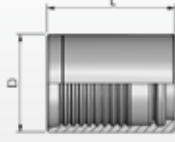
BUK



11

NO SKIVE FERRULE UNIFICATED
1/2 SC - 1/2 SNK - 1 SN
BOCCOLA A PRESSARE UNIFICATA
1/2 SC - 1/2 SNK - 1 SN

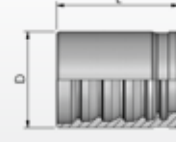
B1C



12

NO SKIVE FERRULE 1 SC - 1 SN K
- R7 - R8 - T7
BOCCOLA A PRESSARE 1 SC - 1 SN K
- R7 - R8 - T7

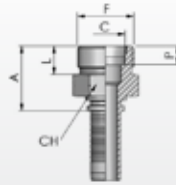
BUS



13

SKIVE FERRULE UNIFICATED
1/2 ST - R 1/2 A - 1/2 SN - 1/2 SC
BOCCOLA A PRESSARE UNIFICATA A PELARE
1/2 ST - R 1/2 A - 1/2 SN - 1/2 SC

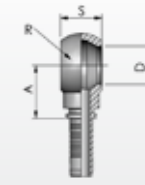
MES



26

CES - METRIC MALE, 24° CONE, HEAVY
CES - MASCHIO METRICO, CONO 24°,
SERIE PESANTE

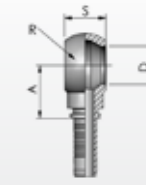
OM



27

RNM - METRIC BANJO
RNM - OCCHIO METRICO

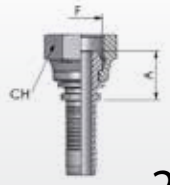
OG



28

RNR - BSP BANJO
RNR - OCCHIO BSP

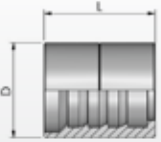
FG



29

DKR - BSP FEMALE, 60° CONE
DKR - FEMMINA BSP, CONO 60°

B1A



14

SKIVE FERRULE 1 ST - R1A
BOCCOLA A PRESSARE A PELARE 1 ST - R1A

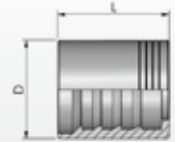
B2A



15

SKIVE FERRULE 2 ST - R2A
BOCCOLA A PRESSARE A PELARE 2 ST - R2A

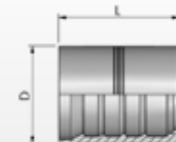
B4P



16

SKIVE FERRULE 4SP - R9R - R10 - R12
BOCCOLA A PRESSARE A PELARE
4SP - R9R - R10 - R12

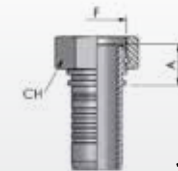
B4H



17

SKIVE FERRULE 4SH
BOCCOLA A PRESSARE A PELARE 4SH

PFG



30

DKOR - BSP FEMALE THRUST WIRE NUT
O-RING, 60° CONE
DKOR - FEMMINA BSP DADO SPINATO
O-RING, CONO 60°

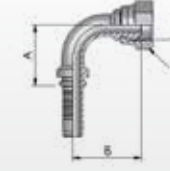
SFORG



31

DKOR - BSP FEMALE SLIP BACK NUT
O-RING, 60° CONE
DKOR - FEMMINA BSP DADO LIBERO
O-RING, CONO 60°

C90G



32

DKR 90° - BSP FEMALE 90°, 60° CONE
DKR 90° - FEMMINA 90° BSP, CONO 60°

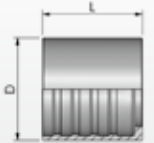
PC90G



33

DKOR 90° - BSP FEMALE 90° THRUST WIRE
NUT O-RING, 60° CONE
DKOR 90° - FEMMINA 90° BSP DADO SPINA-
TO O-RING, CONO 60°

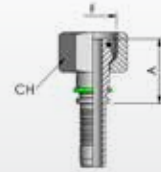
BR4



18

NO SKIVE FERRULE R4
BOCCOLA A PRESSARE R4

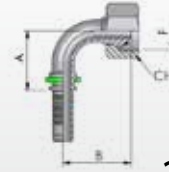
FEL



19

DKOL - METRIC O-RING FEMALE,
24° CONE, LIGHT
DKOL - FEMMINA METRICA O-RING,
CONO 24°, SERIE LEGGERA

C90EL



20

DKOL 90° - METRIC O-RING FEMALE 90°,
24° CONE, LIGHT
DKOL 90° - FEMMINA 90° METRICA O-RING,
CONO 24°, SERIE LEGGERA

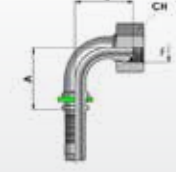
C45EL



21

DKOL 45° - METRIC O-RING FEMALE 45°,
24° CONE, LIGHT
DKOL 45° - FEMMINA 45° METRICA O-RING,
CONO 24°, SERIE LEGGERA

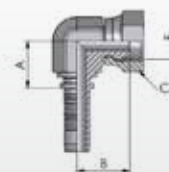
SC90ORG



34

DKOR - BSP FEMALE 90° SLIP BACK NUT
O-RING, 60° CONE
DKOR - FEMMINA 90° BSP DADO LIBERO
O-RING, CONO 60°

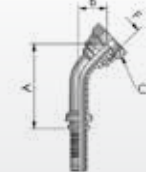
C90COMPG



35

DKR 90° K - BSP FEMALE 90° COMPACT,
60° CONE
DKR 90° K - FEMMINA 90° COMPATTA BSP,
CONO 60°

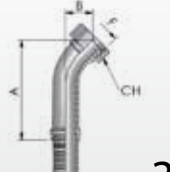
C45G



36

DKR 45° - BSP FEMALE 45°, 60° CONE
DKR 45° - FEMMINA 45° BSP, CONO 60°

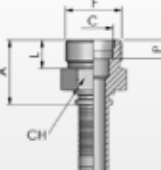
PC45G



37

DKOR 45° - BSP FEMALE 45° THRUST WIRE
NUT O-RING, 60° CONE
DKOR 45° - FEMMINA 45° BSP DADO SPINA-
TO O-RING, CONO 60°

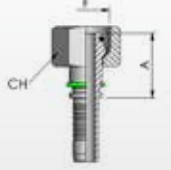
MEL



22

CEL - METRIC MALE, 24° CONE, LIGHT
CEL - MASCHIO METRICO, CONO 24°,
SERIE LEGGERA

FES



23

DKOS - METRIC O-RING FEMALE,
24° CONE, HEAVY
DKOS - FEMMINA METRICA O-RING,
CONO 24°, SERIE PESANTE

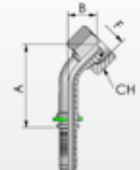
C90ES



24

DKOS 90° - METRIC O-RING FEMALE 90°,
24° CONE, HEAVY
DKOS 90° - FEMMINA 90° METRICA O-RING,
CONO 24°, SERIE PESANTE

C45ES



25

DKOS 45° - METRIC O-RING FEMALE 45°,
24° CONE, HEAVY
DKOS 45° - FEMMINA 45° METRICA O-RING,
CONO 24°, SERIE PESANTE

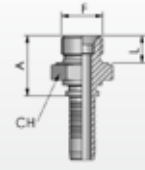
SC45ORG



38

DKOR - BSP FEMALE 45° SLIP BACK NUT
O-RING, 60° CONE
DKOR - FEMMINA 45° BSP DADO LIBERO
O-RING, CONO 60°

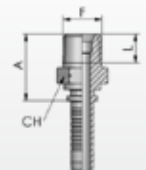
MG



39

AGR - BSPP MALE, 60° CONE
AGR - MASCHIO BSPP, CONO 60°

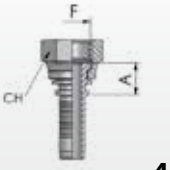
MC



41

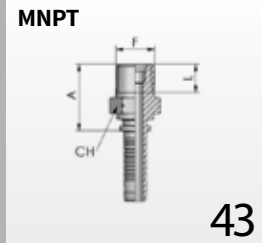
AGR K - BSPT MALE, 60° CONE
AGR K - MASCHIO BSPT, CONO 60°

FSPG



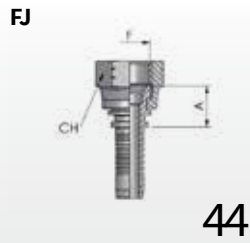
42

DKR F - BSP FEMALE FLAT FACE
DKR F - FEMMINA BSP, SEDE PIANA



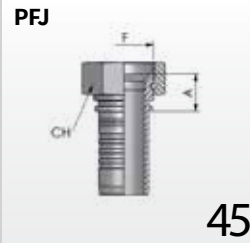
43

AGN - NPTF MALE
AGN - MASCHIO NPTF



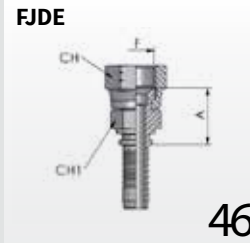
44

DKJ - JIC FEMALE, 37° CONE
DKJ - FEMMINA JIC, CONO 37°



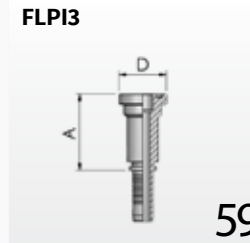
45

DKJ - JIC FEMALE THRUST WIRE NUT, 37° CONE
DKJ - FEMMINA JIC DADO SPINATO, CONO 37°



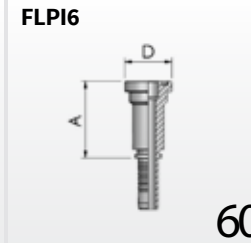
46

DKJ - JIC FEMALE DOUBLE HEXAGON, 37° CONE
DKJ - FEMMINA DOPPIO ESAGONO, CONO 37°



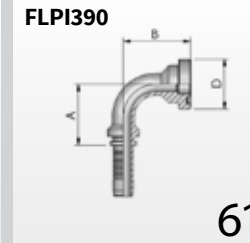
59

SFL - SAE FLANGE 3000 PSI
SFL - FLANGIA SAE 3000 PSI



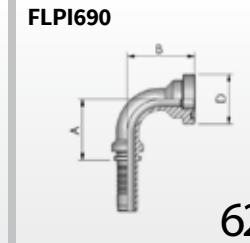
60

SFS - SAE FLANGE 6000 PSI
SFS - FLANGIA SAE 6000 PSI



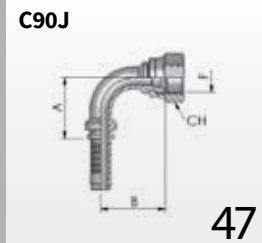
61

SFL 90° - SAE FLANGE 90° 3000 PSI
SFL 90° - FLANGIA 90° SAE 3000 PSI



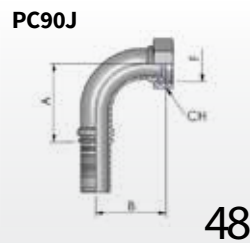
62

SFS 90° - SAE FLANGE 90° 6000 PSI
SFS 90° - FLANGIA 90° SAE 6000 PSI



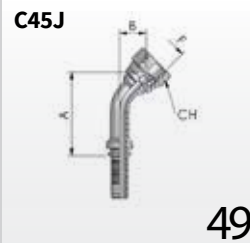
47

DKJ 90° - JIC FEMALE 90°, 37° CONE
DKJ 90° - FEMMINA 90° JIC, CONO 37°



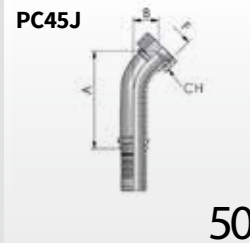
48

DKJ 90° - JIC FEMALE 90° THRUST WIRE NUT, 37° CONE
DKJ 90° - FEMMINA 90° JIC DADO SPINATO, CONO 37°



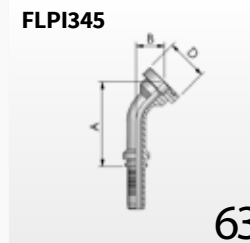
49

DKJ 45° - JIC FEMALE 45°, 37° CONE
DKJ 45° - FEMMINA 45° JIC, CONO 37°



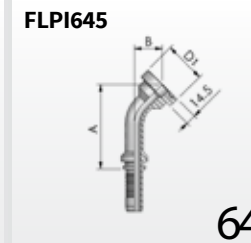
50

DKJ 45° - JIC FEMALE 45° THRUST WIRE NUT, 37° CONE
DKJ 45° - FEMMINA 45° JIC DADO SPINATO, CONO 37°



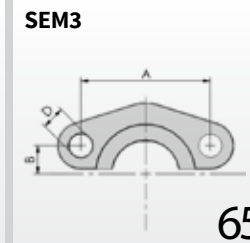
63

SFL 45° - SAE FLANGE 45° 3000 PSI
SFL 45° - FLANGIA 45° SAE 3000 PSI



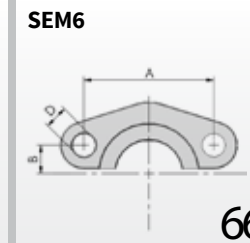
64

SFS 45° - SAE FLANGE 45° 6000 PSI
SFS 45° - FLANGIA 45° SAE 6000 PSI



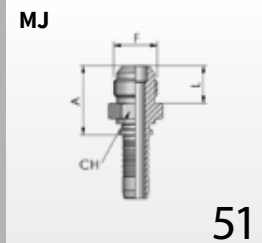
65

SAE SPLIT FLANGE 3000 PSI
SEMIFLANGIA SAE 3000 PSI



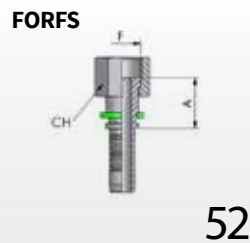
66

SAE SPLIT FLANGE 6000 PSI
SEMIFLANGIA SAE 6000 PSI



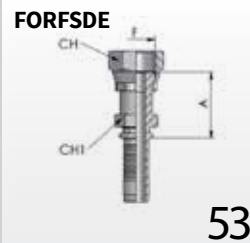
51

AGJ - JIC MALE, 37° CONE
AGJ - MASCHIO JIC, CONO 37°



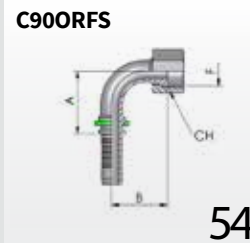
52

DKO - ORFS FEMALE
DKO - FEMMINA ORFS



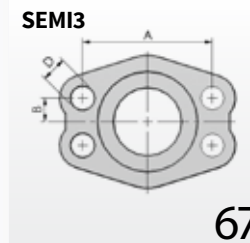
53

DKO - ORFS FEMALE DOUBLE HEXAGON
DKO - FEMMINA DOPPIO ESAGONO ORFS



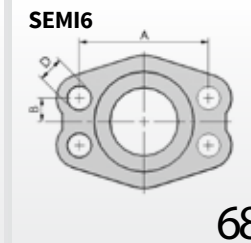
54

DKO 90° - ORFS FEMALE 90°
DKO 90° - FEMMINA 90° ORFS



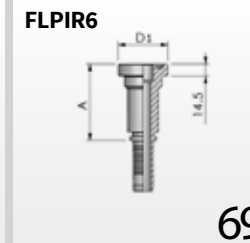
67

SAE UNCLUT FLANGE 3000 PSI
SEMIFLANGIA INTERA SAE 3000 PSI



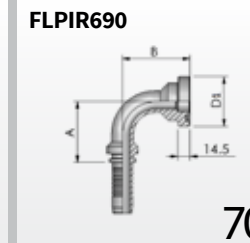
68

SAE UNCLUT FLANGE 6000 PSI
SEMIFLANGIA INTERA SAE 6000 PSI



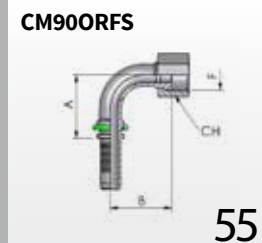
69

SFC - SUPERCAT FLANGE
SFC - FLANGIA SUPERCAT



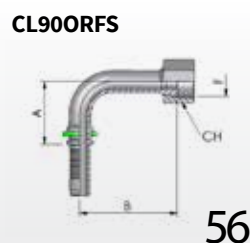
70

SFC 90° - SUPERCAT FLANGE 90°
SFC 90° - FLANGIA 90° SUPERCAT



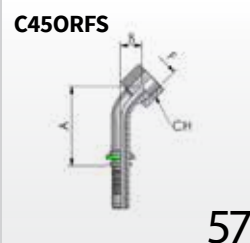
55

DKO 90° - ORFS MEDIUM DROP FEMALE 90°
DKO 90° - FEMMINA 90° ORFS MEDIA



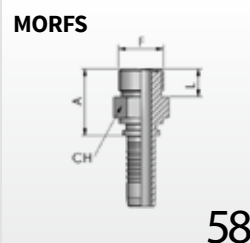
56

DKO 90° - ORFS LONG DROP FEMALE 90°
DKO 90° - FEMMINA 90° ORFS LUNGA



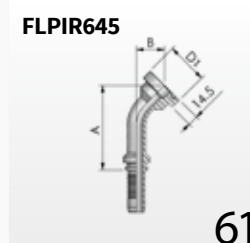
57

DKO 45° - ORFS FEMALE 45°
DKO 45° - FEMMINA 45° ORFS



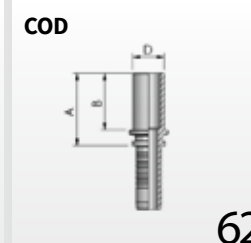
58

AGO - ORFS MALE
AGO - MASCHIO ORFS



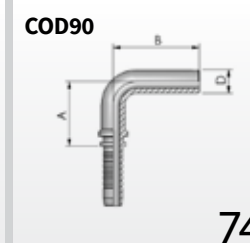
61

SFC 45° - SUPERCAT FLANGE 45°
SFC 45° - FLANGIA 45° SUPERCAT



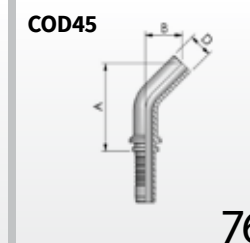
62

BEL/BES - METRIC STANDPIPE
BEL/BES - CODOLO METRICO DIRITTO



74

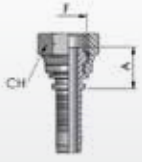
BEL/BES 90° - METRIC STANDPIPE 90°
BEL/BES 90° - CODOLO METRICO 90°



76

BEL/BES 45° - METRIC STANDPIPE 45°
BEL/BES 45° - CODOLO METRICO 45°

FM



78

DKM - METRIC FEMALE, 60° CONE
DKM - FEMMINA METRICA, CONO 60°

C90M



79

DKM 90° - METRIC FEMALE 90°, 60° CONE
DKM 90° - FEMMINA 90° METRICA, CONO 60°

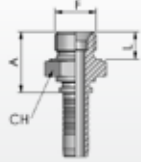
C45M



80

DKM 45° - METRIC FEMALE 45°, 60° CONE
DKM 45° - FEMMINA 45° METRICA, CONO 60°

MM



81

AGM - METRIC MALE, 60° CONE
AGM - MASCHIO METRICO, CONO 60°

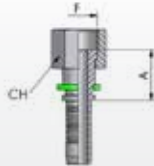
GPG



82

HOSE JUNCTION
GIUNZIONE PER TUBI FLESSIBILI

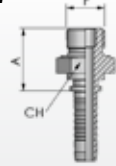
FW



83

CO² FEMALE WHITWORTH
FEMMINA CO² WITHWORTH

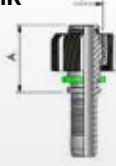
MW



84

CO² MALE WHITWORTH
MASCHIO CO² WITHWORTH

FMK



85

JET WASH FITTING K
FEMMINA IDROPULTRICE K

RS



86

WELDING INSERT
INSERTO A SALDARE

FKTS



87

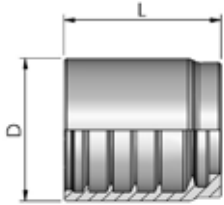
JISK - JIS KOMATSU FEMALE
JISK - FEMMINA JIS KOMATSU

FJS



88

JIST - JIS TOYOTA FEMALE
JIST - FEMMINA JIS TOYOTA



FERRULES
BOCCOLE

BUN

NO SKIVE FERRULE UNIFICATED 1/2 SN - 2 SC - 2 SNK
BOCCOLA A PRESSARE UNIFICATA 1/2 SN - 2 SC - 2 SNK

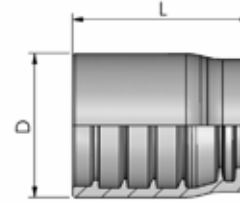
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L	
BUN03	3/16	5	20	26	1/2SN-2SC-2SNK
BUN04	1/4	6	23	26	1/2SN-2SC-2SNK
BUN05	5/16	8	24	26	1/2SN-2SC-2SNK
BUN06	3/8	10	26	31	1/2SN-2SC-2SNK
BUN08	1/2	12	29	33	1/2SN-2SC-2SNK
BUN10	5/8	16	33	36	1/2SN-2SC-2SNK
BUN12	3/4	19	37	39	1/2SN-2SC-2SNK
BUN16	1"	25	46	44	1/2SN-2SC-2SNK
BUN20	1"1/4	32	59	59	1/2SN-2SC-2SNK
BUN24	1"1/2	38	67	67	1/2SN-2SC-2SNK
BUN32	2"	51	80	72	1/2SN-2SC-2SNK

Notes

FERRULE FOR HOSE:
DIN EN 853 1/2SN
SAE 100 R1/2T
DIN EN 857 2SC
2SNK PREMIUM

Note

BOCCOLA PER TUBO:
DIN EN 853 1/2SN
SAE 100 R1/2T
DIN EN 857 2SC
2SNK PREMIUM



FERRULES
BOCCOLE

BUK

NO SKIVE FERRULE UNIFICATED 1/2 SC - 1/2 SNK - 1 SN
BOCCOLA A PRESSARE UNIFICATA 1/2 SC - 1/2 SNK - 1 SN

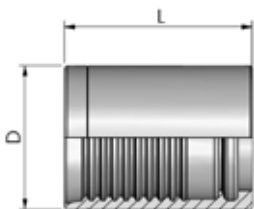
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L	
BUK04	1/4	6	20	26	1/2SC-1/2SNK-1SN
BUK05	5/16	8	22	26	1/2SC-1/2SNK-1SN
BUK06	3/8	10	25	31	1/2SC-1/2SNK-1SN
BUK08	1/2	12	29	33	1/2SC-1/2SNK-1SN
BUK10	5/8	16	32	36	1/2SC-1/2SNK-1SN
BUK12	3/4	19	36	39	1/2SC-1/2SNK-1SN
BUK16	1"	25	45	44	1/2SC-1/2SNK-1SN

Notes

FERRULE FOR HOSE:
DIN EN 857 1/2SC
1/2SNK PREMIUM
DIN EN 853 1SN

Note

BOCCOLA PER TUBO:
DIN EN 857 1/2SC
1/2SNK PREMIUM
DIN EN 853 1SN



FERRULES
BOCCOLE

B1C

NO SKIVE FERRULE 1 SC - 1 SN K - R7 - R8 - 7T
BOCCOLA A PRESSARE 1 SC - 1 SN K - R7 - R8 - 7T

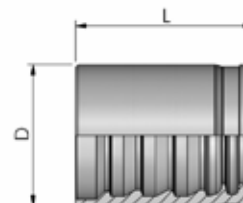
Notes

FERRULE FOR HOSE:
DIN EN 857 1SC
1SNK PREMIUM
SAE 100 R7
SAE 100 R8
R7 - 1 STEEL BRAID (7T)

Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L	
B1C03	3/16	5	16	24	1SC-1SNK-R7/8-7T
B1C04	1/4	6	18	27	1SC-1SNK-R7/8-7T
B1C05	5/16	8	20	27	1SC-1SNK-R7/8-7T
B1C06	3/8	10	22	31	1SC-1SNK-R7/8-7T
B1C08	1/2	12	25	33	1SC-1SNK-R7/8-7T
B1C10	5/8	16	29	36	1SC-1SNK-R7/8-7T

Note

BOCCOLA PER TUBO:
DIN EN 857 1SC
1SNK PREMIUM
SAE 100 R7
SAE 100 R8
R7 - 1 TRECCIA ACCIAIO (7T)



FERRULES
BOCCOLE

BUS

SKIVE FERRULE UNIFICATED 1 / 2 ST - R 1 / 2 A - 1 / 2 SN - 1 / 2 SC
BOCCOLA A PRESSARE UNIFICATA A PELARE 1 / 2 ST - R 1 / 2 A - 1 / 2 SN
- 1 / 2 SC

Notes

FERRULE FOR HOSE:
DIN EN 853 1/2ST - 1/2 SN
SAE 100 R1/2A
DIN EN 857 1/2SC

Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Skive ext. Pel. est. mm	Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L		
BUS04	1/4	6	19	29	21	1/2ST-R1/2A
BUS05	5/16	8	21	29	21	1/2ST-R1/2A
BUS06	3/8	10	23	32	24	1/2ST-R1/2A
BUS08	1/2	12	27	34	24	1/2ST-R1/2A
BUS10	5/8	16	32	37	27	1/2ST-R1/2A
BUS12	3/4	19	36	43	32	1/2ST-R1/2A
BUS16	1"	25	44	49	35	1/2ST-R1/2A

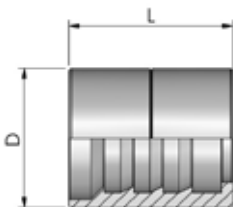
Note

BOCCOLA PER TUBO:
DIN EN 853 1/2ST - 1/2 SN
SAE 100 R1/2A
DIN EN 857 1/2SC

FERRULES
BOCCOLE

B1A

SKIVE FERRULE 1 ST - R1A
BOCCOLA A PRESSARE A PELARE 1 ST - R1A



Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Skive ext. Pel. est. mm	Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L		
B1A03	3/16	5	18	30	16	1ST-R1A
B1A04	1/4	6	20	29	18.5	1ST-R1A
B1A05	5/16	8	22	30	18.5	1ST-R1A
B1A06	3/8	10	24	32	20	1ST-R1A
B1A08	1/2	12	29	34	22	1ST-R1A
B1A10	5/8	16	32	37	25	1ST-R1A
B1A12	3/4	19	36	43	30	1ST-R1A
B1A16	1"	25	43	50	36	1ST-R1A
B1A20	1"1/4	32	52	57	41	1ST-R1A
B1A24	1"1/2	38	57	63	43	1ST-R1A
B1A32	2"	51	70	78	60	1ST-R1A

Notes

FERRULE FOR HOSE:
DIN EN 853 1ST
SAE 100 R1A

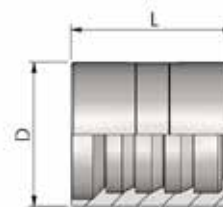
Note

BOCCOLA PER TUBO:
DIN EN 853 1ST
SAE 100 R1A

FERRULES
BOCCOLE

B2A

SKIVE FERRULE 2 ST - R2A
BOCCOLA A PRESSARE A PELARE 2 ST - R2A



Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Skive ext. Pel. est. mm	Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L		
B2A03	3/16	5	20	27	16.5	2ST-R2A
B2A04	1/4	6	21	30	18.5	2ST-R2A
B2A05	5/16	8	24	30	18.5	2ST-R2A
B2A06	3/8	10	26	32	20	2ST-R2A
B2A08	1/2	12	30	34	22	2ST-R2A
B2A10	5/8	16	34	37	25	2ST-R2A
B2A12	3/4	19	38	43	30	2ST-R2A
B2A16	1"	25	46	50	36	2ST-R2A
B2A20	1"1/4	32	56	59	41	2ST-R2A
B2A24	1"1/2	38	62	63	46	2ST-R2A
B2A32	2"	51	75	79	60	2ST-R2A

Notes

FERRULE FOR HOSE:
DIN EN 853 2ST
SAE 100 R2A

Note

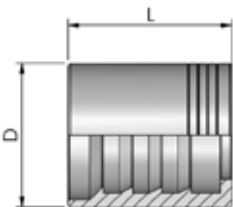
BOCCOLA PER TUBO:
DIN EN 853 2ST
SAE 100 R2A

FERRULES
BOCCOLE

B4P

SKIVE FERRULE 4SP - R9R - R10 - R12 - ISO210 - ISO280 - ISO350 - ISO420

BOCCOLA A PRESSARE A PELARE 4SP - R9R - R10 - R12 - ISO210 - ISO280 - ISO350 - ISO420



Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Skive ext. Pel. est.	Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L		
B4P04	1/4	6	21	30	19	R9R-4SP
B4P06	3/8	10	26	32	23	R9R-4SP
B4P08	1/2	12	30	34	23	R9R-4SP
B4P10	5/8	16	32	44	32	R9R-4SP
B4P12	3/4	19	38	46	30	R9R-4SP-4SH
B4P16	1"	25	46	54	38	R9R-4SP-4SH
B4P20	1"1/4	32	56	66	49	R10-4SP
B4P24	1"1/2	38	65	77	55.5	R10-4SP
B4P32	2"	51	80	80	58.5	R10-4SP

Notes

FERRULE FOR HOSE:

DIN EN 856 4SP
SAE 100 R9R
SAE 100 R10
SAE 100 R12
ISO210 (DN 51)
ISO280 (DN16,19;25;51)
ISO350 (DN12,16;19;25;32;38;51)
ISO420 (DN12,16;19;25;51)

Note

BOCCOLA PER TUBO:

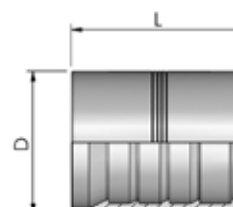
DIN EN 856 4SP
SAE 100 R9R
SAE 100 R10
SAE 100 R12
ISO210 (DN 51)
ISO280 (DN16,19;25;51)
ISO350 (DN12,16;19;25;32;38;51)
ISO420 (DN12,16;19;25;51)

FERRULES
BOCCOLE

B4H

SKIVE FERRULE 4SH

BOCCOLA A PRESSARE A PELARE 4SH



Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Skive ext. Pel. est.	Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L		
B4H20	1"1/4	32	52	66	51	4SH
B4H24	1"1/2	38	62	77	58	4SH
B4H32	2"	51	75	80	60	4SH

Notes

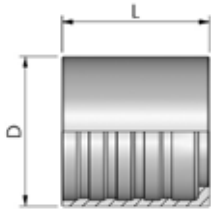
FERRULE FOR HOSE:

DIN EN 856 4SH

Note

BOCCOLA PER TUBO:

DIN EN 856 4SH



FERRULES
BOCCOLE

BR4

NO SKIVE FERRULE R4
BOCCOLA A PRESSARE R4

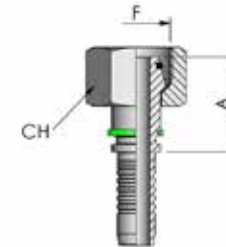
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L	
BR420	1"1/4	32	52	51	SAE 100 R4
BR424	1"1/2	38	60	57	SAE 100 R4
BR432	2"	51	70	63	SAE 100 R4

Notes

FERRULE FOR HOSE:
SAE 100 R4

Note

BOCCOLA PER TUBO:
SAE 100 R4



METRIC FITTINGS 24°
INSERTI METRICI 24°

FEL

DKOL - METRIC O-RING FEMALE, 24° CONE, LIGHT
DKOL - FEMMINA METRICA O-RING, CONO 24°, SERIE LEGGERA

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

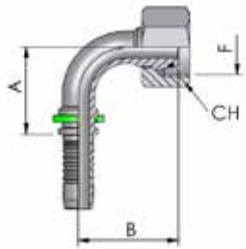
Notes

* CRIMPED NUT

Note

* DADO PINZATO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)		mm	CH
FEL0603	M12x1,5	3/16	5	6	14	22,2
FEL0604*	M12x1,5	1/4	6	6	14	26,5
FEL0803	M14x1,5	3/16	5	8	17	22,2
FEL0804	M14x1,5	1/4	6	8	17	22,4
FEL1004	M16x1,5	1/4	6	10	19	24,6
FEL1005	M16x1,5	5/16	8	10	19	24,6
FEL1006*	M16x1,5	3/8	10	10	19	28,5
FEL1204	M18x1,5	1/4	6	12	22	23,9
FEL1205	M18x1,5	5/16	8	12	22	23,9
FEL1206	M18x1,5	3/8	10	12	22	24,0
FEL1506	M22x1,5	3/8	10	15	27	25,2
FEL1508	M22x1,5	1/2	12	15	27	25,8
FEL1808	M26x1,5	1/2	12	18	32	26,8
FEL1810	M26x1,5	5/8	16	18	32	26,8
FEL2210	M30x2	5/8	16	22	36	28,8
FEL2212	M30x2	3/4	19	22	36	29,8
FEL2816	M36x2	1"	25	28	41	31,3
FEL3520	M45x2	1"1/4	32	35	50	36,4
FEL4224	M52x2	1"1/2	38	42	60	38,4



METRIC FITTINGS 24°
INSERTI METRICI 24°

C90EL

DKOL 90° - METRIC O-RING FEMALE 90°, 24° CONE, LIGHT
DKOL 90° - FEMMINA 90° METRICA O-RING, CONO 24°, SERIE LEGGERA

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

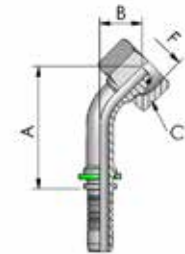
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)		mm	CH	A
C90EL0603	M12x1,5	3/16	5	6	14	26	28
C90EL0604*	M12x1,5	1/4	6	6	14	23	38
C90EL0803	M14x1,5	3/16	5	8	17	26	29
C90EL0804	M14x1,5	1/4	6	8	17	29	35
C90EL1004	M16x1,5	1/4	6	10	19	29	37
C90EL1005	M16x1,5	5/16	8	10	19	36	32
C90EL1006*	M16x1,5	3/8	10	10	19	35	45
C90EL1204	M18x1,5	1/4	6	12	22	33	31
C90EL1205	M18x1,5	5/16	8	12	22	36	33
C90EL1206	M18x1,5	3/8	10	12	22	38	35
C90EL1506	M22x1,5	3/8	10	15	27	38	37
C90EL1508	M22x1,5	1/2	12	15	27	40	41
C90EL1808	M26x1,5	1/2	12	18	32	38	45
C90EL1810	M26x1,5	5/8	16	18	32	46	48
C90EL2212	M30x2	3/4	19	22	36	52	50
C90EL2816	M36x2	1"	25	28	41	72	65
C90EL3520	M45x2	1"1/4	32	35	50	98	77
C90EL4224	M52x2	1"1/2	38	42	60	105	96

Notes

* CRIMPED NUT

Note

* DADO PINZATO



METRIC FITTINGS 24°
INSERTI METRICI 24°

C45EL

DKOL 45° - METRIC O-RING FEMALE 45°, 24° CONE, LIGHT
DKOL 45° - FEMMINA 45° METRICA O-RING, CONO 24°, SERIE LEGGERA

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)		mm	CH	A
C45EL0603	M12x1,5	3/16	5	6	14	36	15
C45EL0604*	M12x1,5	1/4	6	6	14	47	22
C45EL0803	M14x1,5	3/16	5	8	17	38	18
C45EL0804	M14x1,5	1/4	6	8	17	50	17
C45EL1004	M16x1,5	1/4	6	10	19	52	18
C45EL1005	M16x1,5	5/16	8	10	19	56	17
C45EL1006*	M16x1,5	3/8	10	10	19	63	25
C45EL1204	M18x1,5	1/4	6	12	22	52	17
C45EL1205	M18x1,5	5/16	8	12	22	56	17
C45EL1206	M18x1,5	3/8	10	12	22	58	18
C45EL1506	M22x1,5	3/8	10	15	27	60	19
C45EL1508	M22x1,5	1/2	12	15	27	65	21
C45EL1808	M26x1,5	1/2	12	18	32	65	23
C45EL1810	M26x1,5	5/8	16	18	32	74	23
C45EL2212	M30x2	3/4	19	22	36	80	24
C45EL2812**	M36x2	3/4"	19	28	41	102	35
C45EL2816	M36x2	1"	25	28	41	109	30
C45EL3520	M45x2	1"1/4	32	35	50	142	34
C45EL4224	M52x2	1"1/2	38	42	60	160	43

Notes

* CRIMPED NUT
** WHILE STOCKS LAST

Note

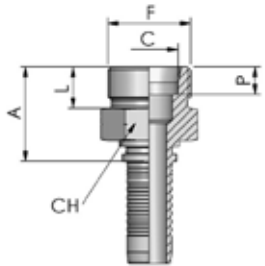
* DADO PINZATO
** ARTICOLO IN ESAURIMENTO

METRIC FITTINGS 24°
INSERTI METRICI 24°

MEL

CEL - METRIC MALE, 24° CONE, LIGHT
CEL - MASCHIO METRICO, CONO 24°, SERIE LEGGERA

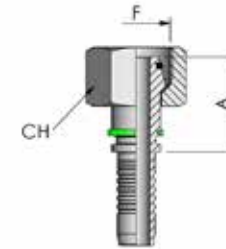
Thread - Filetto: METRIC
Norme - Norma: DIN 3861



Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)			
		Inch/Pollici	DN (mm)		mm	CH	A	P
MEL0603	M12x1,5	3/16	5	6	12	20,7	7	10
MEL0604	M12x1,5	1/4	6	6	12	20,9	7	10
MEL0803	M14x1,5	3/16	5	8	14	21,7	7	10
MEL0804	M14x1,5	1/4	6	8	14	21,9	7	10
MEL1004	M16x1,5	1/4	6	10	17	22,9	7	11
MEL1005	M16x1,5	5/16	8	10	17	22,9	7	11
MEL1006	M16x1,5	3/8	10	10	17	23,5	7	11
MEL1204	M18x1,5	1/4	6	12	19	23,9	7	11
MEL1205	M18x1,5	5/16	8	12	19	23,9	7	11
MEL1206	M18x1,5	3/8	10	12	19	24,5	7	11
MEL1506	M22x1,5	3/8	10	15	22	25,5	7	12
MEL1508	M22x1,5	1/2	12	15	22	26,1	7	12
MEL1808	M26x1,5	1/2	12	18	27	27,1	7,5	12
MEL1810	M26x1,5	5/8	16	18	27	27,1	7,5	12
MEL2210	M30x2	5/8	16	22	30	29	7,5	14
MEL2212	M30x2	3/4	19	22	30	30,1	7,5	14
MEL2816	M36x2	1"	25	28	36	32,1	7,5	14
MEL3520	M45x2	1"1/4	32	35	46	36,5	10,5	16
MEL4224	M52x2	1"1/2	38	42	55	39	11	16

Note



METRIC FITTINGS 24°
INSERTI METRICI 24°

FES

DKOS - METRIC O-RING FEMALE, 24° CONE, HEAVY
DKOS - FEMMINA METRICA O-RING, CONO 24°, SERIE PESANTE

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

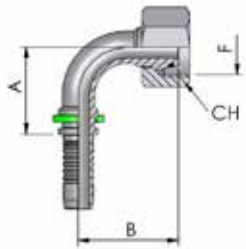
Notes

* CRIMPED NUT
** WHILE STOCKS LAST

Note

* DADO PINZATO
** ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)		mm	CH
FES0603	M14x1,5	3/16	5	6	17	22,2
FES0604*	M14x1,5	1/4	6	6	17	26,5
FES0803	M16x1,5	3/16	5	8	19	22
FES0804	M16x1,5	1/4	6	8	19	22,4
FES1004	M18x1,5	1/4	6	10	22	24,6
FES1005	M18x1,5	5/16	8	10	22	24,6
FES1006*	M18x1,5	3/8	10	10	22	28,5
FES1204	M20x1,5	1/4	6	12	24	23,9
FES1205	M20x1,5	5/16	8	12	24	23,9
FES1206	M20x1,5	3/8	10	12	24	24
FES1406	M22x1,5	3/8	10	14	27	28,7
FES1608	M24x1,5	1/2	12	16	30	28,9
FES1610**	M24x1,5	5/8	16	16	30	30
FES2010	M30x2	5/8	16	20	36	31,5
FES2012	M30x2	3/4	19	20	36	32,5
FES2512	M36x2	3/4	19	25	46	37,5
FES2516	M36x2	1"	25	25	46	36,9
FES3016	M42x2	1"	25	30	50	40,1
FES3020**	M42x2	1"1/4	32	30	50	41
FES3820	M52x2	1"1/4	32	38	60	44,2



METRIC FITTINGS 24°
INSERTI METRICI 24°

C90ES

DKOS 90° - METRIC O-RING FEMALE 90°, 24° CONE, HEAVY
DKOS 90° - FEMMINA 90° METRICA O-RING, CONO 24°, SERIE PESANTE

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

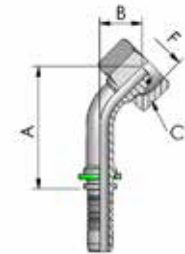
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)		mm	CH	A
C90ES0603	M14X1,5	3/16	5	6	17	26	28
C90ES0604*	M14X1,5	1/4	6	6	17	23	38
C90ES0803	M16x1,5	3/16	5	8	19	26	29
C90ES0804	M16x1,5	1/4	6	8	19	29	35
C90ES1004	M18x1,5	1/4	6	10	22	29	37
C90ES1005	M18x1,5	5/16	8	10	22	36	32
C90ES1006*	M18x1,5	3/8	10	10	22	35	45
C90ES1204	M20x1,5	1/4	6	12	24	33	31
C90ES1205	M20x1,5	5/16	8	12	24	36	33
C90ES1206	M20x1,5	3/8	10	12	24	38	35
C90ES1406	M22x1,5	3/8	10	14	27	36	38
C90ES1408**	M22x1,5	1/2	12	14	27	38	46
C90ES1608	M24x1,5	1/2	12	16	30	38	44
C90ES2008**	M30x2	1/2	12	20	36	50	65
C90ES2010	M30x2	5/8	16	20	36	46	51
C90ES2012	M30x2	3/4	19	20	36	52	51
C90ES2512	M36x2	3/4	19	25	46	52	55
C90ES2516	M36x2	1"	25	25	46	72	66
C90ES3016	M42x2	1"	25	30	50	72	70
C90ES3020**	M42x2	1"1/4	32	30	50	95	85
C90ES3820	M52x2	1"1/4	32	38	60	99	81

Notes

- * CRIMPED NUT
- ** WHILE STOCKS LAST

Note

- * DADO PINZATO
- ** ARTICOLO IN ESAURIMENTO



METRIC FITTINGS 24°
INSERTI METRICI 24°

C45ES

DKOS 45° - METRIC O-RING FEMALE 45°, 24° CONE, HEAVY
DKOS 45° - FEMMINA 45° METRICA O-RING, CONO 24°, SERIE PESANTE

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)		mm	CH	A
C45ES0603	M14X1,5	3/16	5	6	17	36	15
C45ES0604*	M14X1,5	1/4	6	6	17	47	22
C45ES0803	M16x1,5	3/16	5	8	19	38	18
C45ES0804	M16x1,5	1/4	6	8	19	50	17
C45ES1004	M18x1,5	1/4	6	10	22	52	18
C45ES1005	M18x1,5	5/16	8	10	22	56	17
C45ES1006*	M18x1,5	3/8	10	10	22	63	25
C45ES1204	M20x1,5	1/4	6	12	24	53	17
C45ES1205	M20x1,5	5/16	8	12	24	56	17
C45ES1206	M20x1,5	3/8	10	12	24	58	18
C45ES1406	M22x1,5	3/8	10	14	27	59	20
C45ES1608	M24x1,5	1/2	12	16	30	64	22
C45ES2010	M30x2	5/8	16	20	36	77	26
C45ES2012	M30x2	3/4	19	20	36	82	25
C45ES2512	M36x2	3/4	19	25	46	84	28
C45ES2516	M36x2	1"	25	25	46	110	31
C45ES3016	M42x2	1"	25	30	50	113	33
C45ES3020**	M42x2	1"1/4	32	30	50	140	45
C45ES3820	M52x2	1"1/4	32	38	60	146	38

Notes

- * CRIMPED NUT
- ** WHILE STOCKS LAST

Note

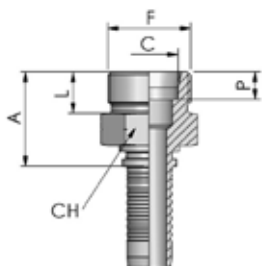
- * DADO PINZATO
- ** ARTICOLO IN ESAURIMENTO

METRIC FITTINGS 24°
INSERTI METRICI 24°

MES

CES - METRIC MALE, 24° CONE, HEAVY
CES - MASCHIO METRICO, CONO 24°, SERIE PESANTE

Thread - Filetto: METRIC
Norme - Norma: DIN 3861



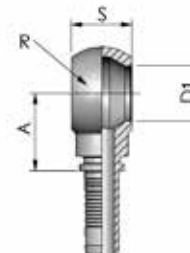
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)			
		Inch/Pollici	DN (mm)		mm	CH	A	P
MES0604	M14x1,5	1/4	6	6	14	23,9	7	12
MES0804	M16x1,5	1/4	6	8	17	26,9	7	12
MES1004	M18x1,5	1/4	6	10	19	26,9	7,5	12
MES1005	M18x1,5	5/16	8	10	19	26,9	7,5	12
MES1006	M18x1,5	3/8	10	10	19	27,5	7,5	12
MES1205	M20x1,5	5/16	8	12	22	28,9	7,5	12
MES1206	M20x1,5	3/8	10	12	22	29,5	7,5	12
MES1406	M22x1,5	3/8	10	14	22	31,5	8	14
MES1408	M22x1,5	1/2	12	14	22	32,1	8	14
MES1608	M24x1,5	1/2	12	16	24	32,1	8,5	14
MES2010	M30x2	5/8	16	20	30	36,1	10,5	16
MES2012	M30x2	3/4	19	20	30	37,1	10,5	16
MES2512	M36x2	3/4	19	25	36	41,1	12	18
MES2516	M36x2	1"	25	25	36	42,1	12	18
MES3016	M42x2	1"	25	30	46	44,1	13,5	20
MES3816*	M52x2	1"	25	38	55	45	16	22
MES3820	M52x2	1"1/4	32	38	55	48,5	16	22
MES3824*	M52x2	1"1/2	38	38	55	42,5	16	22

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



BANJO FITTINGS
INSERTI AD OCCHIO

OM

RNM - METRIC BANJO
RNM - OCCHIO METRICO

Norme - Norma: DIN 7642

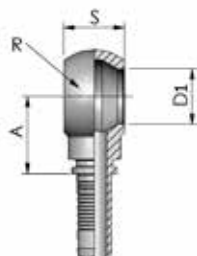
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)			
	Inch/Pollici	DN (mm)	A	R	D1	S
OM1003	3/16	5	24,8	8,5	M10	10
OM1004	1/4	6	24,8	8,5	M10	10
OM1203	3/16	5	21,5	10	M12	12
OM1204	1/4	6	28,3	10	M12	12
OM1205	5/16	8	28,1	10	M12	12
OM1404	1/4	6	24,8	12	M14	14
OM1405	5/16	8	23,3	12	M14	14
OM1406	3/8	10	25,4	12	M14	14
OM1604	1/4	6	26,7	14	M16	17
OM1605	5/16	8	26,8	14	M16	17
OM1606	3/8	10	26,9	14	M16	17
OM1608*	1/2	12	34	14	M16	18
OM1804	1/4	6	31,9	16	M18	20
OM1805	5/16	8	31,7	16	M18	20
OM1806	3/8	10	32,3	16	M18	20
OM1808	1/2	12	29,3	16	M18	20
OM2006	3/8	10	27,8	17,5	M20	22
OM2008	1/2	12	28,3	17,5	M20	22
OM2206	3/8	10	32,3	18	M22	22
OM2208	1/2	12	29,6	18	M22	22
OM2210	5/8	16	30,5	18	M22	22
OM2610	5/8	16	38	22,5	M26	29
OM2612	3/4	19	38	22,5	M26	29

Notes

* WHILE STOCKS LAST

Note

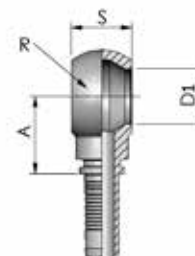
* ARTICOLO IN ESAURIMENTO



BANJO FITTINGS
INSERTI AD OCCHIO

OG

RNR - BSP BANJO
RNR - OCCHIO BSP



BANJO FITTINGS
INSERTI AD OCCHIO

OG

RNR - BSP BANJO
RNR - OCCHIO BSP

Notes
* WHILE STOCKS LAST

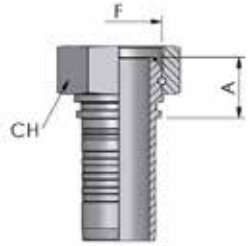
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)			
	Inch/Pollici	DN (mm)	A	R	D1	S
OG0203	3/16	5	24,8	8,5	1/8	10
OG0204	1/4	6	24,8	8,5	1/8	10
OG0403	3/16	5	23	12	1/4	14
OG0404	1/4	6	23,3	12	1/4	14
OG0405	5/16	8	28,1	12	1/4	14
OG0406	3/8	10	23,4	12	1/4	14
OG0604	1/4	6	26,8	14	3/8	17
OG0605	5/16	8	26,8	14	3/8	17
OG0606	3/8	10	26,9	14	3/8	17
OG0608	1/2	12	27,5	14	3/8	17
OG0805	5/16	8	28,9	18	1/2	23
OG0806	3/8	10	29	18	1/2	23
OG0808	1/2	12	29,6	18	1/2	23
OG1010*	5/8	16	37	19,5	5/8	23
OG1206*	3/8	10	46	23	3/4	29
OG1208	1/2	12	39	22,5	3/4	29,5
OG1210	5/8	16	39	22,5	3/4	29,5
OG1212	3/4	19	40	22,5	3/4	29,5
OG1612	3/4	19	46,6	29	1"	38
OG1616	1"	25	47	29	1"	38

Note
* ARTICOLO IN ESAURIMENTO

Notes
* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)			
	Inch/Pollici	DN (mm)	A	R	D1	S
OG0203	3/16	5	24,8	8,5	1/8	10
OG0204	1/4	6	24,8	8,5	1/8	10
OG0403	3/16	5	23	12	1/4	14
OG0404	1/4	6	23,3	12	1/4	14
OG0405	5/16	8	28,1	12	1/4	14
OG0406	3/8	10	23,4	12	1/4	14
OG0604	1/4	6	26,8	14	3/8	17
OG0605	5/16	8	26,8	14	3/8	17
OG0606	3/8	10	26,9	14	3/8	17
OG0608	1/2	12	27,5	14	3/8	17
OG0805	5/16	8	28,9	18	1/2	23
OG0806	3/8	10	29	18	1/2	23
OG0808	1/2	12	29,6	18	1/2	23
OG1010*	5/8	16	37	19,5	5/8	23
OG1206*	3/8	10	46	23	3/4	29
OG1208	1/2	12	39	22,5	3/4	29,5
OG1210	5/8	16	39	22,5	3/4	29,5
OG1212	3/4	19	40	22,5	3/4	29,5
OG1612	3/4	19	46,6	29	1"	38
OG1616	1"	25	47	29	1"	38

Note
* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

PFG

DKOR - BSP FEMALE THRUST WIRE NUT O-RING, 60° CONE
DKOR - FEMMINA BSP DADO SPINATO O-RING, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

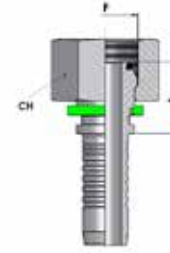
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
PFG1212*	3/4-14	3/4	19	32	27
PFG1616*	1"-11	1"	25	38	31
PFG2016	1"1/4-11	1"	25	50	32,6
PFG2020	1"1/4-11	1"1/4	32	50	31
PFG2420	1"1/2-11	1"1/4	32	55	32,7
PFG2424	1"1/2-11	1"1/2	38	55	32,7
PFG3224*	2"-11	1"1/2	38	70	29,8
PFG3232	2"-11	2"	51	70	29,8

Note

* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

SFORG

DKOR Ø BSP FEMALE SLIP BACK NUT O-RING, 60° CONE
DKOR Ø FEMMINA BSP DADO LIBERO O-RING, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

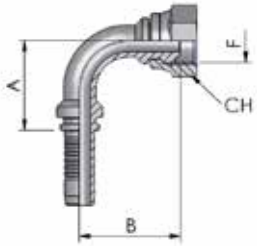
Notes

CRIMPED NUT
* WHILE STOCKS LAST

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
SFORG0404	1/4-19	1/4	6	19	17
SFORG0606	3/8-19	3/8	10	22	19
SFORG0806	1/2-14	3/8	10	27	20
SFORG0808	1/2-14	1/2	12	27	21

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

C90G

DKR 90° - BSP FEMALE 90°, 60° CONE
DKR 90° - FEMMINA 90° BSP, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

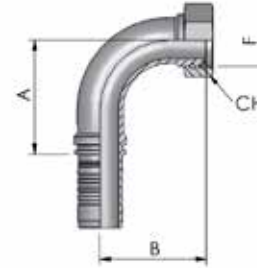
Notes

CRIMPED NUT
* WHILE STOCKS LAST

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C90G0203	1/8-28	3/16	5	15	26	27
C90G0204	1/8-28	1/4	6	15	23	26
C90G0403	1/4-19	3/16	5	19	26	29
C90G0404	1/4-19	1/4	6	19	23	29
C90G0405	1/4-19	5/16	8	19	33	32
C90G0406	1/4-19	3/8	10	19	35	33
C90G0604	3/8-19	1/4	6	22	23	33
C90G0605	3/8-19	5/16	8	22	33	34
C90G0606	3/8-19	3/8	10	22	35	36
C90G0608	3/8-19	1/2	12	22	39	40
C90G0804*	1/2-14	1/4	6	27	28	34
C90G0805	1/2-14	5/16	8	27	33	38
C90G0806	1/2-14	3/8	10	27	35	40
C90G0808	1/2-14	1/2	12	27	39	44
C90G0810	1/2-14	5/8	16	27	48	47
C90G1008	5/8-14	1/2	12	30	39	47
C90G1010	5/8-14	5/8	16	30	48	50
C90G1208	3/4-14	1/2	12	32	39	49
C90G1210	3/4-14	5/8	16	32	48	52
C90G1212	3/4-14	3/4	19	32	50	52
C90G1612	1"-11	3/4	19	38	50	56
C90G1616	1"-11	1"	25	38	72	67

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

PC90G

DKOR 90° - BSP FEMALE 90° THRUST WIRE NUT O-RING, 60° CONE
DKOR 90° - FEMMINA 90° BSP DADO SPINATO O-RING, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

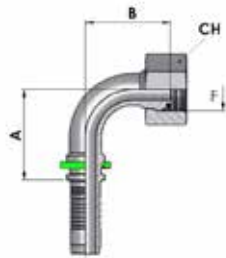
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
PC90G1212*	3/4-14	3/4	19	32	54	56
PC90G1616*	1"-11	1"	25	38	70	72
PC90G2016	1"1/4-11	1"	25	50	72	74
PC90G2020	1"1/4-11	1"1/4	32	50	88	80
PC90G2420	1"1/2-11	1"1/4	32	55	88	84
PC90G2424	1"1/2-11	1"1/2	38	55	99	92
PC90G3224*	2"-11	1"1/2	38	70	99	97
PC90G3232	2"-11	2"	51	70	127	122

Note

* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

SC90ORG

DKOR ♂ BSP FEMALE 90° SLIP BACK NUT O-RING, 60° CONE
DKOR ♂ FEMMINA 90° BSP DADO LIBERO O-RING, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

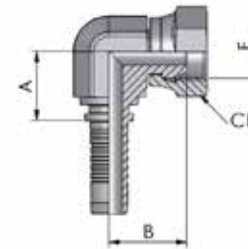
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
SC90ORG0404	1/4-19	1/4	6	19	31	27
SC90ORG0606	3/8-19	3/8	10	22	38	31
SC90ORG0806	1/2-14	3/8	10	27	38	34
SC90ORG0808	1/2-14	1/2	12	27	40	38

Notes

CRIMPED NUT

Note

DADO PINZATO



BSP FITTINGS 60°
INSERTI BSP 60°

C90COMPG

DKR 90° K - BSP FEMALE 90° COMPACT, 60° CONE
DKR 90° K - FEMMINA 90° COMPATTA BSP, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

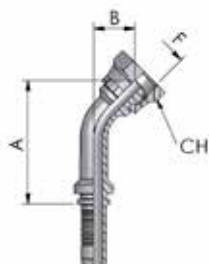
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C90COMPG0404	1/4-19	1/4	6	19	21	23
C90COMPG0606	3/8-19	3/8	10	22	22	24
C90COMPG0808	1/2-14	1/2	12	27	24	27
C90COMPG1212	3/4-14	3/4	19	32	32	35
C90COMPG1616	1"-11	1"	25	38	34	40

Notes

CRIMPED NUT

Note

DADO PINZATO



BSP FITTINGS 60°
INSERTI BSP 60°

C45G

DKR 45° - BSP FEMALE 45°, 60° CONE
DKR 45° - FEMMINA 45° BSP, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

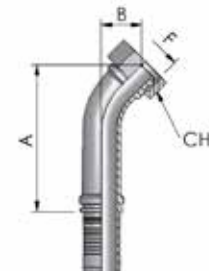
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C45G0203	1/8-28	3/16	5	15	38	13
C45G0204	1/8-28	1/4	6	15	38	13
C45G0403	1/4-19	3/16	5	19	40	16
C45G0404	1/4-19	1/4	6	19	41	16
C45G0405	1/4-19	5/16	8	19	53	17
C45G0406	1/4-19	3/8	10	19	55	17
C45G0604	3/8-19	1/4	6	22	43	18
C45G0605	3/8-19	5/16	8	22	54	18
C45G0606	3/8-19	3/8	10	22	57	18
C45G0608	3/8-19	1/2	12	22	62	19
C45G0806	1/2-14	3/8	10	27	60	21
C45G0808	1/2-14	1/2	12	27	65	22
C45G1008	5/8-14	1/2	12	30	68	25
C45G1010	5/8-14	5/8	16	30	77	25
C45G1208	3/4-14	1/2	12	32	69	26
C45G1210	3/4-14	5/8	16	32	79	27
C45G1212	3/4-14	3/4	19	32	82	26
C45G1612	1"-11	3/4	19	38	84	28
C45G1616	1"-11	1"	25	38	111	31

Notes

CRIMPED NUT

Note

DADO PINZATO



BSP FITTINGS 60°
INSERTI BSP 60°

PC45G

DKOR 45° - BSP FEMALE 45° THRUST WIRE NUT O-RING, 60° CONE
DKOR 45° - FEMMINA 45° BSP DADO SPINATO O-RING, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

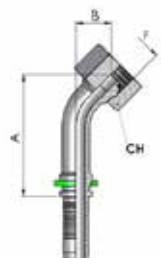
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
PC45G1212*	3/4-14	3/4	19	32	82	30
PC45G1616*	1"-11	1"	25	38	90	41
PC45G2016	1"1/4-11	1"	25	50	116	36
PC45G2020	1"1/4-11	1"1/4	32	50	134	37
PC45G2424	1"1/2-11	1"1/2	38	55	152	40
PC45G3224*	2"-11	1"1/2	38	70	155	44
PC45G3232	2"-11	2"	51	70	143	55

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

SC45ORG

DKOR ♂ BSP FEMALE 45° SLIP BACK NUT O-RING, 60° CONE
DKOR ♂ FEMMINA 45° BSP DADO LIBERO O-RING, CONO 60°

Thread - Filetto: BSP
Norme - Norma: BS 5200

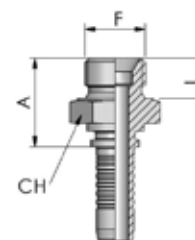
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
SC45ORG0404	1/4-19	1/4	6	19	47	13
SC45ORG0606	3/8-19	3/8	10	22	56	15
SC45ORG0806	1/2-14	3/8	10	27	62	23
SC45ORG0808	1/2-14	1/2	12	27	62	18

Notes

CRIMPED NUT

Note

DADO PINZATO



BSP FITTINGS 60°
INSERTI BSP 60°

MG

AGR - BSPP MALE, 60° CONE
AGR - MASCHIO BSPP, CONO 60°

Thread - Filetto: BSPP
Norme - Norma: BS 5200

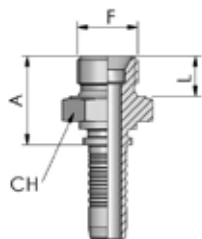
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MG0203	1/8-28	3/16	5	14	20,3	8
MG0204	1/8-28	1/4	6	14	20,5	8
MG0403	1/4-19	3/16	5	19	25,3	12
MG0404	1/4-19	1/4	6	19	25,5	12
MG0405	1/4-19	5/16	8	19	25,5	12
MG0406	1/4-19	3/8	10	19	26,5	12
MG0604	3/8-19	1/4	6	22	26,6	12
MG0605	3/8-19	5/16	8	22	26,6	12
MG0606	3/8-19	3/8	10	22	27,2	12
MG0608	3/8-19	1/2	12	22	27,8	12
MG0804	1/2-14	1/4	6	27	29,7	14
MG0805	1/2-14	5/16	8	27	29,7	14
MG0806	1/2-14	3/8	10	27	30,3	14
MG0808	1/2-14	1/2	12	27	30,9	14
MG0810	1/2-14	5/8	16	27	30,9	14
MG1008	5/8-14	1/2	12	28	34,2	16
MG1010	5/8-14	5/8	16	28	34,2	16
MG1208	3/4-14	1/2	12	32	34,3	16
MG1210	3/4-14	5/8	16	32	34,3	16
MG1212	3/4-14	3/4	19	32	35	16
MG1612	1"-11	3/4	19	41	37,1	18
MG1616	1"-11	1"	25	41	38,1	18
MG2016	1"1/4-11	1"	25	50	46,1	20

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

MG

AGR - BSPP MALE, 60° CONE
AGR - MASCHIO BSPP, CONO 60°

Thread - Filetto: BSPP
Norme - Norma: BS 5200

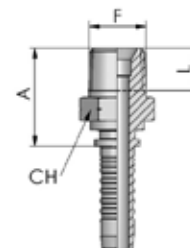
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MG2020	1"1/4-11	1"1/4	32	50	47,5	20
MG2420*	1"1/2-11	1"1/4	32	55	50,5	22
MG2424	1"1/2-11	1"1/2	38	55	51	22
MG3232	2"-11	2"	51	70	54	24

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



BSP FITTINGS 60°
INSERTI BSP 60°

MC

AGR K - BSPT MALE, 60° CONE
AGR K - MASCHIO BSPT, CONO 60°

Thread - Filetto: BSPT

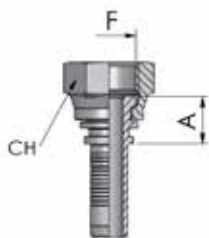
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MC0203	1/8-28	3/16	5	12	21,9	10
MC0204	1/8-28	1/4	6	12	22,2	10
MC0404	1/4-19	1/4	6	15	27	14
MC0406*	1/4-19	3/8	10	15	25	12,5
MC0604*	3/8-19	1/4	6	19	28,5	15
MC0606	3/8-19	3/8	10	19	29	14,5
MC0806	1/2-14	3/8	10	22	34,5	19
MC0808	1/2-14	1/2	12	22	35,1	19
MC1212	3/4-14	3/4	19	27	37,1	19
MC1612	1"-11	3/4	19	36	43,1	24
MC1616	1"-11	1"	25	36	44,1	24
MC2020	1"1/4-11	1"1/4	32	46	49,5	24,5
MC2424	1"1/2-11	1"1/2	38	50	51	25
MC3232	2"-11	2"	51	65	53	26

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



BSP FITTINGS
INSERTI BSP

FSPG

DKR F - BSP FEMALE FLAT FACE
DKR F - FEMMINA BSP, SEDE PIANA

Thread - Filetto: BSP
Norme - Norma:

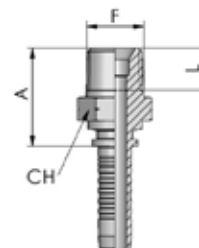
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	
FSPG0404	1/4-19	1/4	6	19	14,4	
FSPG0604*	3/8-19	1/4	6	22	16	
FSPG0606	3/8-19	3/8	10	22	14,9	
FSPG0806	1/2-14	3/8	10	27	15,7	
FSPG0808	1/2-14	1/2	12	27	16,3	
FSPG1208	3/4-14	1/2	12	32	21	
FSPG1210	3/4-14	5/8	16	32	18,5	
FSPG1212	3/4-14	3/4	19	32	19,5	
FSPG1616	1"-11	1"	25	38	21,2	

Notes

CRIMPED NUT
* WHILE STOCKS LAST

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO



NPT FITTINGS 60°
INSERTI NPT 60°

MNPT

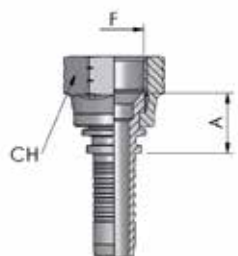
AGN - NPTF MALE
AGN - MASCHIO NPTF

Thread - Filetto: NPTF

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MNPT0203	1/8-27	3/16	5	12	21,6	9,7
MNPT0204	1/8-27	1/4	6	12	21,9	9,7
MNPT0404	1/4-18	1/4	6	15	27,1	14,2
MNPT0405	1/4-18	5/16	8	15	27,1	14,2
MNPT0406	1/4-18	3/8	10	15	27,7	14,2
MNPT0604	3/8-18	1/4	6	19	28,2	14,2
MNPT0605	3/8-18	5/16	8	19	28,2	14,2
MNPT0606	3/8-18	3/8	10	19	28,7	14,2
MNPT0608	3/8-18	1/2	12	19	29,3	14,2
MNPT0806	1/2-14	3/8	10	22	34,5	19
MNPT0808	1/2-14	1/2	12	22	35,1	19
MNPT1208	3/4-14	1/2	12	27	36,1	19
MNPT1210	3/4-14	5/8	16	27	36,1	19
MNPT1212	3/4-14	3/4	19	27	37,1	19
MNPT1616	1"-11,5	1"	25	36	44	23,9
MNPT2016	1"1/4-11,5	1"	25	46	48,2	24,6
MNPT2020	1"1/4-11,5	1"1/4	32	46	49,6	24,6
MNPT2424	1"1/2-11,5	1"1/2	38	50	50,9	25,4
MNPT3232	2"-11,5	2"	51	65	53,2	26,2

Notes

Note



JIC FITTINGS 37°
INSERTI JIC 37°

FJ

DKJ - JIC FEMALE, 37° CONE
DKJ - FEMMINA JIC, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

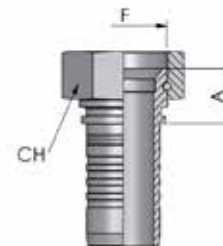
Notes

CRIMPED NUT
* FJ1106 45° CONE
** WHILE STOCKS LAST

Note

DADO PINZATO
* FJ1106 CONO DI TENUTA 45°
** ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
FJ0603	7/16-20	3/16	5	15	14,8
FJ0604	7/16-20	1/4	6	15	15
FJ0804	1/2-20	1/4	6	17	14,5
FJ0805	1/2-20	5/16	8	17	14,5
FJ1004	9/16-18	1/4	6	19	15,9
FJ1005	9/16-18	5/16	8	19	15,9
FJ1006	9/16-18	3/8	10	19	16
FJ1106*	5/8-18	3/8	10	22	16,9
FJ1204**	3/4-16	1/4	6	24	17
FJ1205	3/4-16	5/16	8	24	16
FJ1206	3/4-16	3/8	10	24	16,1
FJ1208	3/4-16	1/2	12	24	16,7
FJ1606	7/8-14	3/8	10	27	18,2
FJ1608	7/8-14	1/2	12	27	18,8
FJ1610	7/8-14	5/8	16	27	18,8
FJ1612**	7/8-14	3/4	19	27	22,3
FJ2008	1"1/16-12	1/2	12	32	24,1
FJ2010	1"1/16-12	5/8	16	32	21,6
FJ2012	1"1/16-12	3/4	19	32	22,6
FJ2212	1"3/16-12	3/4	19	36	22,1
FJ2512	1"5/16-12	3/4	19	41	24,3
FJ2516	1"5/16-12	1"	25	41	24,8



JIC FITTINGS 37°
INSERTI JIC 37°

PFJ

DKJ - JIC FEMALE THRUST WIRE NUT, 37° CONE
DKJ - FEMMINA JIC DADO SPINATO, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

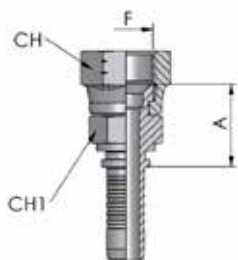
Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
PFJ2010*	1"1/16-12	5/8	16	32	21,5
PFJ2012*	1"1/16-12	3/4	19	32	22,5
PFJ2516*	1"5/16-12	1"	25	41	23,5
PFJ3416	1"5/8-12	1"	25	50	26,7
PFJ3420	1"5/8-12	1"1/4	32	50	28,1
PFJ4020	1"7/8-12	1"1/4	32	55	28,5
PFJ4024	1"7/8-12	1"1/2	38	55	28,5
PFJ5032	2"1/2-12	2"	51	70	28,5



JIC FITTINGS 37°
INSERTI JIC 37°

FJDE

DKJ - JIC FEMALE DOUBLE HEXAGON, 37° CONE
DKJ - FEMMINA JIC DOPPIO ESAGONO, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

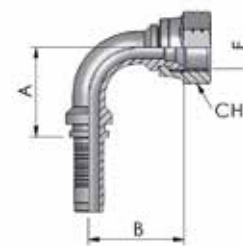
Notes

CRIMPED NUT
* WHILE STOCKS LAST

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	CH1	A
FJDE0604	7/16-20	1/4	6	15	12	21
FJDE0804	1/2-20	1/4	6	17	14	21
FJDE1004	9/16-18	1/4	6	19	14	22,5
FJDE1005	9/16-18	5/16	8	19	14	22,5
FJDE1006	9/16-18	3/8	10	19	14	20,5
FJDE1008*	9/16-18	1/2	12	19	19	25
FJDE1206	3/4-16	3/8	10	24	19	25
FJDE1208	3/4-16	1/2	12	24	19	23
FJDE1608	7/8-14	1/2	12	27	22	29
FJDE1610	7/8-14	5/8	16	27	22	29
FJDE2012	1"1/16-12	3/4	19	32	27	34
FJDE2516	1"5/16-12	1"	25	41	32	37,3

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO



JIC FITTINGS 37°
INSERTI JIC 37°

C90J

DKJ 90° - JIC FEMALE 90°, 37° CONE
DKJ 90° - FEMMINA 90° JIC, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

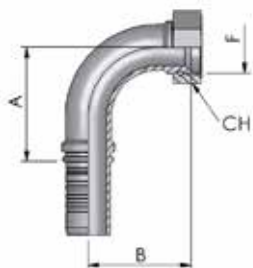
Notes

CRIMPED NUT
* C90J1106 45° CONE
** WHILE STOCKS LAST

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C90J0603	7/16-20	3/16	5	15	26	26
C90J0604	7/16-20	1/4	6	15	23	27
C90J0804	1/2-20	1/4	6	17	23	26
C90J0805	1/2-20	5/16	8	17	33	29
C90J1004	9/16-18	1/4	6	19	23	29
C90J1005	9/16-18	5/16	8	19	33	30
C90J1006	9/16-18	3/8	10	19	35	33
C90J1106*	5/8-18	3/8	10	22	35	34
C90J1205	3/4-16	5/16	8	24	33	33
C90J1206	3/4-16	3/8	10	24	35	34
C90J1208	3/4-16	1/2	12	24	39	39
C90J1606	7/8-14	3/8	10	27	35	37
C90J1608	7/8-14	1/2	12	27	39	41
C90J1610	7/8-14	5/8	16	27	48	45
C90J1612**	7/8-14	3/4	19	27	50	52
C90J2008	1"1/16-12	1/2	12	32	39	48
C90J2010	1"1/16-12	5/8	16	32	48	51
C90J2012	1"1/16-12	3/4	19	32	50	51
C90J2212	1"3/16-12	3/4	19	36	58	64
C90J2512	1"5/16-12	3/4	19	41	50	55
C90J2516	1"5/16-12	1"	25	41	72	67

Note

DADO PINZATO
* C90J1106 CONO DI TENUTA 45°
** ARTICOLO IN ESAURIMENTO



JIC FITTINGS 37°
INSERTI JIC 37°

PC90J

DKJ 90° - JIC FEMALE 90° THRUST WIRE NUT, 37° CONE
DKJ 90° - FEMMINA 90° JIC DADO SPINATO, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

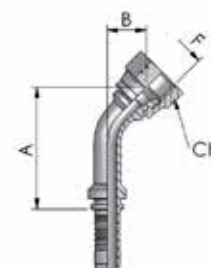
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
PC90J2010*	1"1/16-12	5/8	16	32	47	50
PC90J2012*	1"1/16-12	3/4	19	32	50	50
PC90J2516*	1"5/16-12	1"	25	41	72	64
PC90J3416	1"5/8-12	1"	25	50	72	71
PC90J3420	1"5/8-12	1"1/4	32	50	88	77
PC90J4020*	1"7/8-12	1"1/4	32	55	100	100
PC90J4024	1"7/8-12	1"1/2	38	55	99	89
PC90J5032	2"1/2-12	2"	51	70	127	121

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



JIC FITTINGS 37°
INSERTI JIC 37°

C45J

DKJ 45° - JIC FEMALE 45°, 37° CONE
DKJ 45° - FEMMINA 45° JIC, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

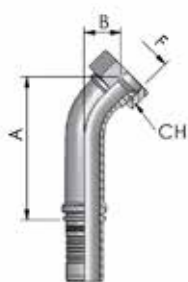
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C45J0603	7/16-20	3/16	5	15	37	13
C45J0604	7/16-20	1/4	6	15	39	14
C45J0804	1/2-20	1/4	6	17	39	13
C45J1004	9/16-18	1/4	6	19	40	15
C45J1005	9/16-18	5/16	8	19	52	16
C45J1006	9/16-18	3/8	10	19	54	16
C45J1205	3/4-16	5/16	8	24	53	17
C45J1206	3/4-16	3/8	10	24	55	17
C45J1208	3/4-16	1/2	12	24	62	19
C45J1606	7/8-14	3/8	10	27	58	20
C45J1608	7/8-14	1/2	12	27	64	21
C45J1610	7/8-14	5/8	16	27	74	21
C45J2008*	1"1/16-12	1/2	12	32	68	25
C45J2010	1"1/16-12	5/8	16	32	78	26
C45J2012	1"1/16-12	3/4	19	32	81	25
C45J2512	1"5/16-12	3/4	19	41	84	28
C45J2516	1"5/16-12	1"	25	41	111	31

Notes

CRIMPED NUT
* WHILE STOCKS LAST

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO



JIC FITTINGS 37°
INSERTI JIC 37°

PC45J

DKJ 45° - JIC FEMALE 45° THRUST WIRE NUT, 37° CONE
DKJ 45° - FEMMINA 45° JIC DADO SPINATO, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

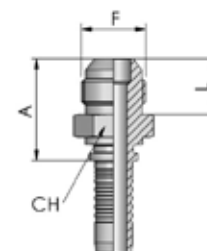
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
PC45J2010*	1"1/16-12	5/8	16	32	80	25
PC45J3420	1"5/8-12	1"1/4	32	50	132	35
PC45J4020*	1"7/8-12	1"1/4	32	55	108	40
PC45J4024	1"7/8-12	1"1/2	38	55	149	38
PC45J5032	2"1/2-12	2"	51	70	142	54

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



JIC FITTINGS 37°
INSERTI JIC 37°

MJ

AGJ - JIC MALE, 37° CONE
AGJ - MASCHIO JIC, CONO 37°

Thread - Filetto: UNF-UN
Norme - Norma: SAE J514

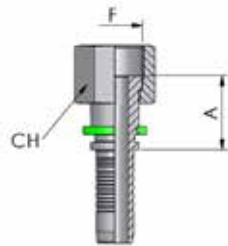
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MJ0603	7/16-20	3/16	5	12	26,3	14
MJ0604	7/16-20	1/4	6	12	26,5	14
MJ0804	1/2-20	1/4	6	15	26,5	14
MJ0805	1/2-20	5/16	8	15	26,5	14
MJ1004	9/16-18	1/4	6	15	27,4	14,1
MJ1005	9/16-18	5/16	8	15	27,4	14,1
MJ1006	9/16-18	3/8	10	17	27,5	14,1
MJ1106	5/8-18	3/8	10	17	29,9	16
MJ1204*	3/4-16	1/4	6	19	30	16,7
MJ1205	3/4-16	5/16	8	19	30	16,7
MJ1206	3/4-16	3/8	10	19	30,6	16,7
MJ1208	3/4-16	1/2	12	19	31,2	16,7
MJ1606	7/8-14	3/8	10	24	35,3	19,3
MJ1608	7/8-14	1/2	12	24	35,3	19,3
MJ1610	7/8-14	5/8	16	24	35,3	19,3
MJ2008	1"1/16-12	1/2	12	27	39,7	21,9
MJ2010	1"1/16-12	5/8	16	27	39,7	21,9
MJ2012	1"1/16-12	3/4	19	27	40,7	21,9
MJ2512	1"5/16-12	3/4	19	34	41,9	23,1
MJ2516	1"5/16-12	1"	25	34	42,9	23,1
MJ3416	1"5/8-12	1"	25	42	46,1	24,3
MJ3420	1"5/8-12	1"1/4	32	42	47,5	24,3
MJ4020*	1"7/8-12	1"1/4	32	50	52,5	27,5

Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO



ORFS FITTINGS
INSERTI ORFS

FORFS

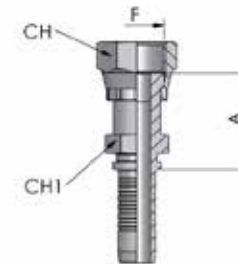
DKO - ORFS FEMALE
DKO - FEMMINA ORFS

Thread - Filetto: UNF-UN
Norme - Norma: SAE J1453

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
	F				
FORFS1004	9/16-18	1/4	6	17	20,5
FORFS1104	11/16-16	1/4	6	22	21,9
FORFS1105	11/16-16	5/16	8	22	21,9
FORFS1106	11/16-16	3/8	10	22	22
FORFS1306	13/16-16	3/8	10	24	25
FORFS1308	13/16-16	1/2	12	24	25,6
FORFS1808	1"-14	1/2	12	30	29,9
FORFS1810	1"-14	5/8	16	30	29,9
FORFS2208	1"3/16-12	1/2	12	36	32,1
FORFS2210	1"3/16-12	5/8	16	36	32,1
FORFS2212	1"3/16-12	3/4	19	36	33
FORFS2612	1"7/16-12	3/4	19	41	33,6
FORFS2616	1"7/16-12	1"	25	41	34,1
FORFS3620	1"11/16-12	1"1/4	32	50	35,5
FORFS4624	2"-12	1"1/2	38	60	37

Note



ORFS FITTINGS
INSERTI ORFS

FORFSDE

DKO - ORFS FEMALE DOUBLE HEXAGON
DKO - FEMMINA DOPPIO ESAGONO ORFS

Thread - Filetto: UNF-UN

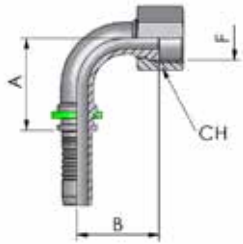
Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	CH1	A
	F					
FORFSDE1004	9/16-18	1/4	6	17	14	28
FORFSDE1104	11/16-16	1/4	6	22	17	30,8
FORFSDE1106	11/16-16	3/8	10	22	17	32
FORFSDE1108*	11/16-16	1/2	12	22	19	32,5
FORFSDE1306	13/16-16	3/8	10	24	19	35,3
FORFSDE1308	13/16-16	1/2	12	24	19	33,4
FORFSDE1808	1"-14	1/2	12	30	24	39,6
FORFSDE1810	1"-14	5/8	16	30	24	39,6
FORFSDE1812*	1"-14	3/4	19	30	27	40,5
FORFSDE2212	1"3/16-12	3/4	19	36	27	43
FORFSDE2616	1"7/16-12	1"	25	41	36	46,1
FORFSDE3620	1"11/16-12	1"1/4	32	50	41	48
FORFSDE4624	2"-12	1"1/2	38	60	50	49,6



ORFS FITTINGS
INSERTI ORFS

C90ORFS

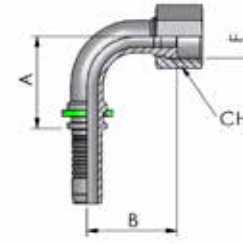
DKO 90° - ORFS FEMALE 90°
DKO 90° - FEMMINA 90° ORFS

Thread - Filetto: UNF-UN
Norme - Norma: SAE J1453

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C90ORFS1004	9/16-18	1/4	6	17	33	24
C90ORFS1104	11/16-16	1/4	6	22	33	26
C90ORFS1105	11/16-16	5/16	8	22	36	27
C90ORFS1106	11/16-16	3/8	10	22	38	29
C90ORFS1306	13/16-16	3/8	10	24	38	32
C90ORFS1308	13/16-16	1/2	12	24	40	36
C90ORFS1808	1"-14	1/2	12	30	40	41
C90ORFS1810	1"-14	5/8	16	30	46	47
C90ORFS2208	1"3/16-12	1/2	12	36	40	43
C90ORFS2210	1"3/16-12	5/8	16	36	46	46
C90ORFS2212	1"3/16-12	3/4	19	36	52	46
C90ORFS2612	1"7/16-12	3/4	19	41	52	52
C90ORFS2616	1"7/16-12	1"	25	41	72	63
C90ORFS3620	1"11/16-12	1"1/4	32	50	88	73
C90ORFS4624	2"-12	1"1/2	38	60	105	84

Note



ORFS FITTINGS
INSERTI ORFS

CM90ORFS

DKO 90° - ORFS MEDIUM DROP FEMALE 90°
DKO 90° - FEMMINA 90° ORFS MEDIA

Thread - Filetto: UNF-UN
Norme - Norma: SAE J1454 - SAE J516

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
CM90ORFS1004	9/16-18	1/4	6	17	32,9	38
CM90ORFS1106	11/16-16	3/8	10	22	37,5	38
CM90ORFS1306	13/16-16	3/8	10	24	37,5	41
CM90ORFS1308	13/16-16	1/2	12	24	40,05	41
CM90ORFS1808	1"-14	1/2	12	30	40,05	47
CM90ORFS1810	1"-14	5/8	16	30	46,05	47
CM90ORFS2210	1"3/16-12	5/8	16	36	46,05	58
CM90ORFS2212	1"3/16-12	3/4	19	36	50	58
CM90ORFS2616	1"7/16-12	1"	25	41	71,6	71

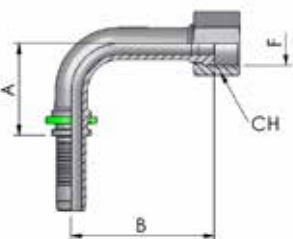
Note

ORFS FITTINGS
INSERTI ORFS

CL90ORFS

DKO 90° - ORFS LONG DROP FEMALE 90°
DKO 90° - FEMMINA 90° ORFS LUNGA

Thread - Filetto: UNF-UN
Norme - Norma: SAE J1454 - SAE J516

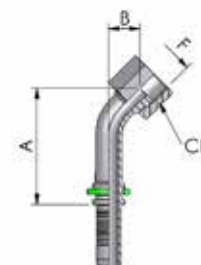


Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
CL90ORFS1004	9/16-18	1/4	6	17	32,85	46
CL90ORFS1106	11/16-16	3/8	10	22	37,5	54
CL90ORFS1306	13/16-16	3/8	10	24	37,5	64
CL90ORFS1308	13/16-16	1/2	12	24	40,05	64
CL90ORFS1808	1"-14	1/2	12	30	42,4	66
CL90ORFS1810	1"-14	5/8	16	30	46,05	70
CL90ORFS2210	1"3/16-12	5/8	16	36	46,05	96
CL90ORFS2212	1"3/16-12	3/4	19	36	52,2	96
CL90ORFS2616	1"7/16-12	1"	25	41	71,6	114

Note

Note



ORFS FITTINGS
INSERTI ORFS

C45ORFS

DKO 45° - ORFS FEMALE 45°
DKO 45° - FEMMINA 45° ORFS

Thread - Filetto: UNF-UN
Norme - Norma: SAE J1453

Notes

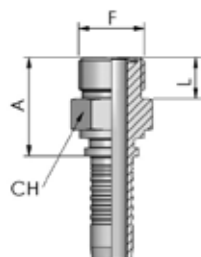
Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C45ORFS1004	9/16-18	1/4	6	17	47	12
C45ORFS1104	11/16-16	1/4	6	22	48	13
C45ORFS1105	11/16-16	5/16	8	22	52	13
C45ORFS1106	11/16-16	3/8	10	22	54	14
C45ORFS1306	13/16-16	3/8	10	24	56	16
C45ORFS1308	13/16-16	1/2	12	24	61	17
C45ORFS1808	1"-14	1/2	12	30	64	20
C45ORFS1810	1"-14	5/8	16	30	71	20
C45ORFS1812*	1"-14	3/4	19	30	85	35
C45ORFS2208	1"3/16-12	1/2	12	36	66	22
C45ORFS2210	1"3/16-12	5/8	16	36	73	22
C45ORFS2212	1"3/16-12	3/4	19	36	78	21
C45ORFS2612	1"7/16-12	3/4	19	41	82	26
C45ORFS2616	1"7/16-12	1"	25	41	108	29
C45ORFS3620	1"11/16-12	1"1/4	32	50	129	32
C45ORFS4624	2"-12	1"1/2	38	60	151	35

* WHILE STOCKS LAST

Note

Note

* ARTICOLO IN ESAURIMENTO

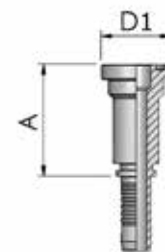


ORFS FITTINGS
INSERTI ORFS

MORFS

AGO - ORFS MALE
AGO - MASCHIO ORFS

Thread - Filetto: UNF-UN
Norme - Norma: SAE J1453



FLANGES
FLANGE

FLPI3

SFL - SAE FLANGE 3000 PSI
SFL - FLANGIA SAE 3000 PSI

Norme - Norma: SAE J518

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MORFS1004	9/16-18	1/4	6	17	24,6	9,8
MORFS1104	11/16-16	1/4	6	19	26,8	11,2
MORFS1105	11/16-16	5/16	8	19	26,8	11,2
MORFS1106	11/16-16	3/8	10	19	27,4	11,2
MORFS1306	13/16-16	3/8	10	22	30,1	12,8
MORFS1308	13/16-16	1/2	12	22	30,7	12,8
MORFS1808	1"-14	1/2	12	27	35,2	15,5
MORFS1810	1"-14	5/8	16	27	35,2	15,5
MORFS1812	1"-14	3/4	19	27	36,2	15,5
MORFS2208	1"3/16-12	1/2	12	32	38,2	17
MORFS2210	1"3/16-12	5/8	16	32	38,2	17
MORFS2212	1"3/16-12	3/4	19	32	39,2	17
MORFS2612	1"7/16-12	3/4	19	38	40,9	17,5
MORFS2616	1"7/16-12	1"	25	38	41,9	17,5
MORFS3620	1"11/16-12	1"1/4	32	46	45,3	17,5
MORFS4624	2"-12	1"1/2	38	55	47,6	17,5

Notes

Note

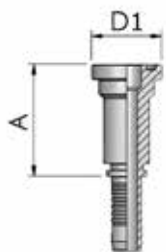
Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	D1	A
FLPI30806*	1/2	3/8	10	30,2	53
FLPI30808	1/2	1/2	12	30,2	48,8
FLPI31208	3/4	1/2	12	38,1	52,8
FLPI31210	3/4	5/8	16	38,1	50,8
FLPI31212	3/4	3/4	19	38,1	54,6
FLPI31612	1"	3/4	19	44,5	60,6
FLPI31616	1"	1"	25	44,5	60,8
FLPI32016	1"1/4	1"	25	50,8	65,3
FLPI32020	1"1/4	1"1/4	32	50,8	65,8
FLPI32420	1"1/2	1"1/4	32	60,4	71,3
FLPI32424	1"1/2	1"1/2	38	60,4	70,9
FLPI33232	2"	2"	51	71,4	77,5

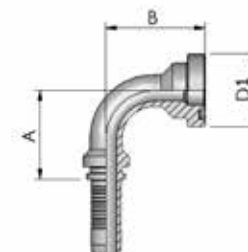


FLANGES
FLANGE

FLPI6

SFS - SAE FLANGE 6000 PSI
SFS - FLANGIA SAE 6000 PSI

Norme - Norma: SAE J518



FLANGES
FLANGE

FLPI390

SFL 90° - SAE FLANGE 90° 3000 PSI
SFL 90° - FLANGIA 90° SAE 3000 PSI

Norme - Norma: SAE J518

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	D1	A
FLPI60808	1/2	1/2	12	31,7	48,8
FLPI61208	3/4	1/2	12	41,3	56,8
FLPI61210	3/4	5/8	16	41,3	54,8
FLPI61212	3/4	3/4	19	41,3	58,6
FLPI61612	1"	3/4	19	47,6	64,6
FLPI61616	1"	1"	25	47,6	66,1
FLPI62016	1"1/4	1"	25	54,0	71,1
FLPI62020	1"1/4	1"1/4	32	54,0	72,3
FLPI62420	1"1/2	1"1/4	32	63,5	81,8
FLPI62424	1"1/2	1"1/2	38	63,5	81,4
FLPI63232	2"	2"	51	79,4	100,5

Note

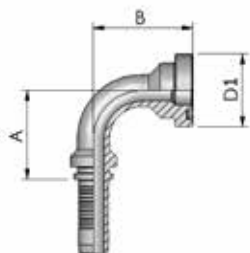
Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
FLPI3900806*	1/2	3/8	10	30,2	34	37
FLPI3900808	1/2	1/2	12	30,2	39	42
FLPI3901208	3/4	1/2	12	38,1	39	47
FLPI3901210	3/4	5/8	16	38,1	48	50
FLPI3901212	3/4	3/4	19	38,1	50	50
FLPI3901612	1"	3/4	19	44,5	50	53
FLPI3901616	1"	1"	25	44,5	72	70
FLPI3902016	1"1/4	1"	25	50,8	72	67
FLPI3902020	1"1/4	1"1/4	32	50,8	88	73
FLPI3902420	1"1/2	1"1/4	32	60,4	88	78
FLPI3902424	1"1/2	1"1/2	38	60,4	99	86
FLPI3903232	2"	2"	51	71,5	127	129

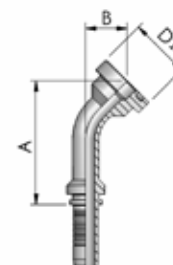


FLANGES
FLANGE

FLPI690

SFS 90° - SAE FLANGE 90° 6000 PSI
SFS 90° - FLANGIA 90° SAE 6000 PSI

Norme - Norma: SAE J518



FLANGES
FLANGE

FLPI345

SFL 45° - SAE FLANGE 45° 3000 PSI
SFL 45° - FLANGIA 45° SAE 3000 PSI

Norme - Norma: SAE J518

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
FLPI6900808	1/2	1/2	12	31,7	39	43
FLPI6901208	3/4	1/2	12	41,3	39	51
FLPI6901210	3/4	5/8	16	41,3	48	54
FLPI6901212	3/4	3/4	19	41,3	50	54
FLPI6901612	1"	3/4	19	47,6	50	60
FLPI6901616	1"	1"	25	47,6	72	71
FLPI6902016	1"1/4	1"	25	54,0	72	78
FLPI6902020	1"1/4	1"1/4	32	54,0	88	84
FLPI6902420	1"1/2	1"1/4	32	63,5	88	93
FLPI6902424	1"1/2	1"1/2	38	63,5	99	101
FLPI6903224*	2"	1"1/2	38	79,4	105	109
FLPI6903232	2"	2"	51	79,4	128	131

Notes

* WHILE STOCKS LAST

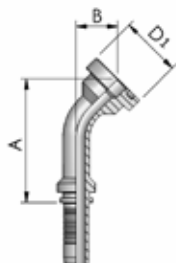
Note

* ARTICOLO IN ESAURIMENTO

Notes

Note

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
FLPI3450808	1/2	1/2	12	30,2	64	21
FLPI3451208	3/4	1/2	12	38,1	68	25
FLPI3451210	3/4	5/8	16	38,1	78	25
FLPI3451212	3/4	3/4	19	38,1	80	24
FLPI3451612	1"	3/4	19	44,5	82	27
FLPI3451616	1"	1"	25	44,5	113	34
FLPI3452016	1"1/4	1"	25	50,8	111	31
FLPI3452020	1"1/4	1"1/4	32	50,8	129	32
FLPI3452420	1"1/2	1"1/4	32	60,4	133	36
FLPI3452424	1"1/2	1"1/2	38	60,4	147	36
FLPI3453232	2"	2"	51	71,4	186	42



FLANGES
FLANGE

FLPI645

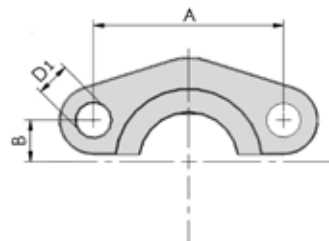
SFS 45° - SAE FLANGE 45° 6000 PSI
SFS 45° - FLANGIA 45° SAE 6000 PSI

Norme - Norma: SAE J518

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
FLPI6450808	1/2	1/2	12	31,7	65	22
FLPI6451208	3/4	1/2	12	41,3	71	28
FLPI6451210	3/4	5/8	16	41,3	81	28
FLPI6451212	3/4	3/4	19	41,3	83	27
FLPI6451612	1"	3/4	19	47,6	87	31
FLPI6451616	1"	1"	25	47,6	114	34
FLPI6452016	1"1/4	1"	25	54,0	119	39
FLPI6452020	1"1/4	1"1/4	32	54,0	137	40
FLPI6452420	1"1/2	1"1/4	32	63,5	143	46
FLPI6452424	1"1/2	1"1/2	38	63,5	158	46
FLPI6453232	2"	2"	51	79,4	203	59

Notes

Note



FLANGES
FLANGE

SEM3

SAE SPLIT FLANGE 3000 PSI
SEMIFLANGIA SAE 3000 PSI

Norme - Norma: SAE J518

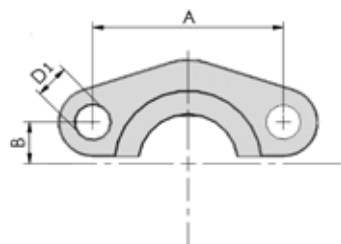
Code Article Codice Articolo	Flange Flangia	Dimensions (mm) Dimensioni (mm)		
		D1	A	B
SEM308	1/2	21,8	38,1	8,8
SEM312	3/4	24,9	47,6	11,1
SEM316	1"	28,2	52,4	13,1
SEM320	1"1/4	35,3	58,7	15,1
SEM324	1"1/2	40,1	69,9	17,9
SEM332	2"	47,2	77,8	21,5

Notes

The code is for single piece and not for the couple.

Note

Il codice identifica il pezzo singolo e non la coppia.



FLANGES
FLANGE

SEM6

SAE SPLIT FLANGE 6000 PSI
SEMIFLANGIA SAE 6000 PSI

Norme - Norma: SAE J518

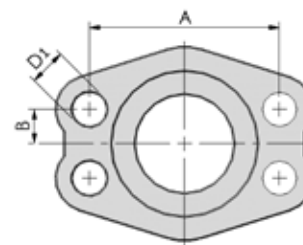
Code Article Codice Articolo	Flange Flangia	Dimensions (mm) Dimensioni (mm)		
		D1	A	B
SEM608	1/2	22,6	40,5	9,2
SEM612	3/4	29	50,8	11,9
SEM616	1"	33,8	57,2	13,9
SEM620	1"1/4	37,6	66,7	15,7
SEM624	1"1/2	46,5	79,4	18,2
SEM632	2"	55,9	96,8	22,2

Notes

The code is for single piece and not for the couple.

Note

Il codice identifica il pezzo singolo e non la coppia.



FLANGES
FLANGE

SEMI3

SAE UNCUT FLANGE 3000 PSI
SEMIFLANGIA INTERA SAE 3000 PSI

Norme - Norma: SAE J518

Code Article Codice Articolo	Flange Flangia	Dimensions (mm) Dimensioni (mm)		
		D1	A	B
SEMI308	1/2	21,8	38,1	8,8
SEMI312	3/4	24,9	47,6	11,1
SEMI316	1"	28,2	52,4	13,1
SEMI320	1"1/4	35,3	58,7	15,1
SEMI324	1"1/2	40,1	69,9	17,9
SEMI332	2"	47,2	77,8	21,5

Notes

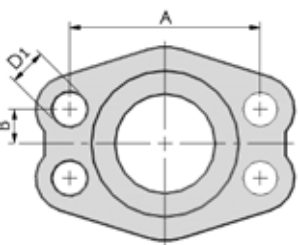
Note

FLANGES
FLANGE

SEMI6

SAE UNCUT FLANGE 6000 PSI
SEMIFLANGIA INTERA SAE 6000 PSI

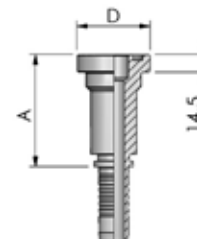
Norme - Norma: SAE J518



Code Article Codice Articolo	Flange Flangia	Dimensions (mm) Dimensioni (mm)		
		D1	A	B
SEMI608	1/2	22,6	40,5	9,2
SEMI612	3/4	29	50,8	11,9
SEMI616	1"	33,8	57,2	13,9
SEMI620	1"1/4	37,6	66,7	15,7
SEMI624	1"1/2	46,5	79,4	18,2
SEMI632	2"	55,9	96,8	22,2

Notes

Note



FLANGES
FLANGE

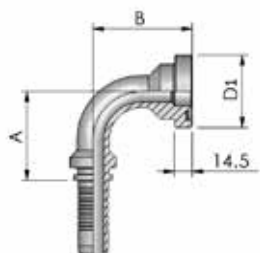
FLPIR6

SFC - SUPERCAT FLANGE
SFC - FLANGIA SUPERCAT

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	D1	A
FLPIR61212	3/4	3/4	19	41,3	65,8
FLPIR61612	1"	3/4	19	47,6	69,6
FLPIR61616	1"	1"	25	47,6	71,1
FLPIR62016	1"1/4	1"	25	54,0	75
FLPIR62020	1"1/4	1"1/4	32	54,0	76,5

Notes

Note



FLANGES
FLANGE

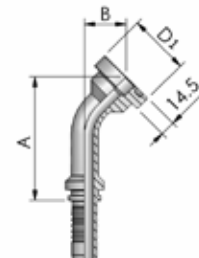
FLPIR690

SFC 90° - SUPERCAT FLANGE 90°
SFC 90° - FLANGIA 90° SUPERCAT

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
FLPIR6901212	3/4	3/4	19	41,3	50	60
FLPIR6901612	1"	3/4	19	47,6	50	65
FLPIR6901616	1"	1"	25	47,6	72	76
FLPIR6902016	1"1/4	1"	25	54,0	72	82
FLPIR6902020	1"1/4	1"1/4	32	54,0	88	88

Note



FLANGES
FLANGE

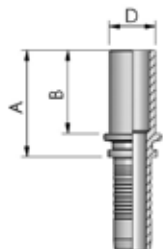
FLPIR645

SFC 45° - SUPERCAT FLANGE 45°
SFC 45° - FLANGIA 45° SUPERCAT

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
FLPIR6451212	3/4	3/4	19	41,3	87	31
FLPIR6451612	1"	3/4	19	47,6	91	35
FLPIR6451616	1"	1"	25	47,6	117	38
FLPIR6452016	1"1/4	1"	25	54,0	122	42
FLPIR6452020	1"1/4	1"1/4	32	54,0	140	43

Note



STANDPIPES
CODOLI LISCI

COD

BEL/BES - METRIC STANDPIPE
BEL/BES - CODOLO METRICO DIRITTO

Norme - Norma: DIN 2353

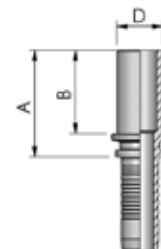
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		D Standpipe D Codolo	Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)		A	B
COD0603	3/16	5	6	31	24
COD0604	1/4	6	6	31,2	24
COD0803	3/16	5	8	31	24
COD0804	1/4	6	8	31,2	24
COD0805	5/16	8	8	31,4	24
COD1003*	3/16	5	10	31,5	25
COD1004	1/4	6	10	31,2	24
COD1005	5/16	8	10	31,4	24
COD1006	3/8	10	10	31,5	24
COD1204	1/4	6	12	32	27,3
COD1205	5/16	8	12	32,2	25
COD1206	3/8	10	12	32,5	25
COD1208	1/2	12	12	33,1	25
COD1406	3/8	10	14	36,3	29
COD1408	1/2	12	14	37,1	29
COD1506	3/8	10	15	36,5	29
COD1508	1/2	12	15	36,8	29
COD1608	1/2	12	16	37,1	29
COD1808	1/2	12	18	37,1	29
COD1810	5/8	16	18	36,8	29
COD1812	3/4	19	18	37,5	29
COD2008	1/2	12	20	43,8	38,5
COD2010	5/8	16	20	43,8	36

Note

* ARTICOLO IN ESAURIMENTO



STANDPIPES
CODOLI LISCI

COD

BEL/BES - METRIC STANDPIPE
BEL/BES - CODOLO METRICO DIRITTO

Norme - Norma: DIN 2353

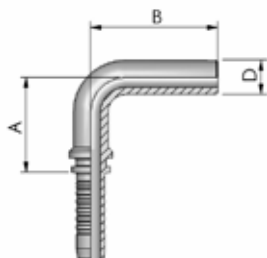
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		D Standpipe D Codolo	Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)		A	B
COD2012	3/4	19	20	44,5	36
COD2210	5/8	16	22	36,8	29
COD2212	3/4	19	22	37,5	29
COD2512	3/4	19	25	44,5	36
COD2516	1"	25	25	46,1	36
COD2816	1"	25	28	45,8	36
COD3016	1"	25	30	46,1	36
COD3020*	1"1/4	32	30	51	38
COD3520	1"1/4	32	35	46	35
COD3820	1"1/4	32	38	53	40
COD3824	1"1/2	38	38	58	45
COD4224	1"1/2	38	42	55	42

Note

* ARTICOLO IN ESAURIMENTO



STANDPIPES
CODOLI LISCI

COD90

BEL/BES 90° - METRIC STANDPIPE 90°
BEL/BES 90° - CODOLO METRICO 90°

Norme - Norma: DIN 2353

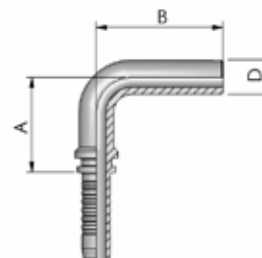
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		D Standpipe D Codolo	Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)		A	B
COD900603	3/16	5	6	28	38
COD900604	1/4	6	6	28	38
COD900803	3/16	5	8	22	38
COD900804	1/4	6	8	28	38
COD900805	5/16	8	8	28	38
COD901004	1/4	6	10	32	36
COD901005	5/16	8	10	32	44
COD901006	3/8	10	10	32	41
COD901204	1/4	6	12	33	43
COD901205	5/16	8	12	33	44
COD901206	3/8	10	12	33	44
COD901208	1/2	12	12	33	45
COD901405*	5/16	8	14	37	49
COD901406	3/8	10	14	35	48
COD901408	1/2	12	14	35	48
COD901506	3/8	10	15	38	53
COD901508	1/2	12	15	38	53
COD901608	1/2	12	16	43	56
COD901808	1/2	12	18	45	58
COD901810	5/8	16	18	45	58
COD901812*	3/4	19	18	43	57
COD902008*	1/2	12	20	48	65
COD902010	5/8	16	20	51	63

Note

* ARTICOLO IN ESAURIMENTO



STANDPIPES
CODOLI LISCI

COD90

BEL/BES 90° - METRIC STANDPIPE 90°
BEL/BES 90° - CODOLO METRICO 90°

Norme - Norma: DIN 2353

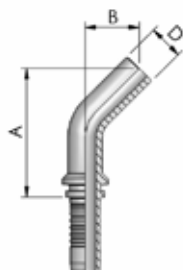
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		D Standpipe D Codolo	Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)		A	B
COD902012	3/4	19	20	51	66
COD902210	5/8	16	22	47	70
COD902212	3/4	19	22	55	72
COD902512	3/4	19	25	58	74
COD902516	1"	25	25	61	74
COD902816	1"	25	28	68	84
COD903016	1"	25	30	76	87
COD903520	1"1/4	32	35	68	95
COD903820	1"1/4	32	38	83	105
COD904220*	1"1/4	32	42	96	115
COD904224	1"1/2	38	42	85	110

Note

* ARTICOLO IN ESAURIMENTO



STANDPIPES
CODOLI LISCI

COD45

BEL/BES 45° - METRIC STANDPIPE 45°
BEL/BES 45° - CODOLO METRICO 45°

Norme - Norma: DIN 2353

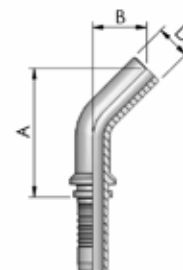
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		D Standpipe D Codolo	Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)		A	B
COD450603	3/16	5	6	39	22
COD450604	1/4	6	6	40	22
COD450804	1/4	6	8	46	20
COD450805*	5/16	8	8	58	35
COD451005	5/16	8	10	43	20
COD451004	1/4	6	10	43	20
COD451006	3/8	10	10	43	22
COD451204	1/4	6	12	52	24
COD451205	5/16	8	12	52	24
COD451206	3/8	10	12	52	25
COD451406	3/8	10	14	52	25
COD451408	1/2	12	14	52	31
COD451506	3/8	10	15	56	24
COD451508	1/2	12	15	56	24
COD451608	1/2	12	16	54	25
COD451808	1/2	12	18	61	26
COD451810	5/8	16	18	75	33
COD452010	5/8	16	20	81	40
COD452008*	1/2	12	20	67	35
COD452012	3/4	19	20	70	40
COD452210	5/8	16	22	77	34
COD452212	3/4	19	22	77	34
COD452512	3/4	19	25	82	36

Note

* ARTICOLO IN ESAURIMENTO



STANDPIPES
CODOLI LISCI

COD45

BEL/BES 45° - METRIC STANDPIPE 45°
BEL/BES 45° - CODOLO METRICO 45°

Norme - Norma: DIN 2353

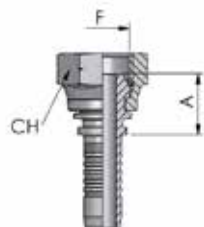
Notes

* WHILE STOCKS LAST

Code Article Codice Articolo	Hose Tubo		D Standpipe D Codolo	Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)		A	B
COD452516	1"	25	25	82	36
COD452816	1"	25	28	87	44
COD453016	1"	25	30	90	44
COD453520	1"1/4	32	35	99	46
COD453820	1"1/4	32	38	104	51
COD453824*	1"1/2	38	38	100	54
COD454224	1"1/2	38	42	113	60

Note

* ARTICOLO IN ESAURIMENTO



METRIC FITTINGS 60°
INSERTI METRICI 60°

FM

DKM - METRIC FEMALE, 60° CONE
DKM - FEMMINA METRICA, CONO 60°

Thread - Filetto: METRIC

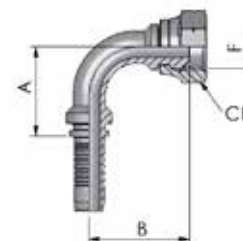
Notes

CRIMPED NUT
* WHILE STOCKS LAST

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
FM1003	10x1	3/16	5	14	15,65
FM1004	10x1	1/4	6	14	15,9
FM1203*	12x1,5	3/16	5	17	16
FM1204	12x1,5	1/4	6	17	17,6
FM1404	14x1,5	1/4	6	19	17,6
FM1405	14x1,5	5/16	8	19	17,6
FM1406	14x1,5	3/8	10	19	17,7
FM1604	16x1,5	1/4	6	22	18,7
FM1605	16x1,5	5/16	8	22	18,7
FM1606	16x1,5	3/8	10	22	18,8
FM1608*	16x1,5	1/2	12	22	20
FM1804	18x1,5	1/4	6	24	18,7
FM1805	18x1,5	5/16	8	24	18,7
FM1806	18x1,5	3/8	10	24	18,8
FM1808	18x1,5	1/2	12	24	19,4
FM2006	20x1,5	3/8	10	27	20,6
FM2008	20x1,5	1/2	12	27	21,2
FM2206	22x1,5	3/8	10	27	20,6
FM2208	22x1,5	1/2	12	27	21,2
FM2210	22x1,5	5/8	16	27	21,2
FM2610	26x1,5	5/8	16	32	22,8
FM2612	26x1,5	3/4	19	32	23,8
FM3012	30x1,5	3/4	19	38	24,5



METRIC FITTINGS 60°
INSERTI METRICI 60°

C90M

DKM 90° - METRIC FEMALE 90°, 60° CONE
DKM 90° - FEMMINA 90° METRICA, CONO 60°

Thread - Filetto: METRIC

Notes

CRIMPED NUT
* WHILE STOCKS LAST

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C90M1003	10x1	3/16	5	14	26	27
C90M1004	10x1	1/4	6	14	23	26
C90M1204	12x1,5	1/4	6	17	23	29
C90M1404	14x1,5	1/4	6	19	23	29
C90M1405	14x1,5	5/16	8	19	33	32
C90M1406	14x1,5	3/8	10	19	35	33
C90M1604	16x1,5	1/4	6	22	23	33
C90M1605	16x1,5	5/16	8	22	33	34
C90M1606	16x1,5	3/8	10	22	35	36
C90M1804	18x1,5	1/4	6	24	23	33
C90M1805	18x1,5	5/16	8	24	33	34
C90M1806	18x1,5	3/8	10	24	35	36
C90M1808	18x1,5	1/2	12	24	39	40
C90M2006	20x1,5	3/8	10	27	35	40
C90M2008	20x1,5	1/2	12	27	39	44
C90M2206	22x1,5	3/8	10	27	35	40
C90M2208	22x1,5	1/2	12	27	39	44
C90M2210	22x1,5	5/8	16	27	48	47
C90M2610	26x1,5	5/8	16	32	48	52
C90M2612	26x1,5	3/4	19	32	50	52
C90M3012	30x1,5	3/4	19	36	50	56
C90M3816*	38x1,5	1"	25	46	82	70

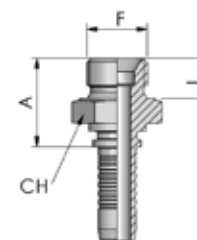


METRIC FITTINGS 60°
INSERTI METRICI 60°

C45M

DKM 45° - METRIC FEMALE 45°, 60° CONE
DKM 45° - FEMMINA 45° METRICA, CONO 60°

Thread - Filetto: METRIC



METRIC FITTINGS 60°
INSERTI METRICI 60°

MM

AGM - METRIC MALE, 60° CONE
AGM - MASCHIO METRICO, CONO 60°

Thread - Filetto: METRIC

Notes

CRIMPED NUT
* WHILE STOCKS LAST

Note

DADO PINZATO
* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
C45M1003	10x1	3/16	5	14	38	13
C45M1004*	10x1	1/4	6	14	40	16
C45M1204	12x1,5	1/4	6	17	38	13
C45M1404	14x1,5	1/4	6	19	41	16
C45M1405	14x1,5	5/16	8	19	53	17
C45M1406	14x1,5	3/8	10	19	55	17
C45M1604	16x1,5	1/4	6	22	43	18
C45M1605	16x1,5	5/16	8	22	54	18
C45M1606	16x1,5	3/8	10	22	57	18
C45M1804	18x1,5	1/4	6	24	43	18
C45M1805	18x1,5	5/16	8	24	54	18
C45M1806	18x1,5	3/8	10	24	57	18
C45M1808	18x1,5	1/2	12	24	62	19
C45M2006	20x1,5	3/8	10	27	60	21
C45M2008	20x1,5	1/2	12	27	65	22
C45M2206	22x1,5	3/8	10	27	60	21
C45M2208	22x1,5	1/2	12	27	65	22
C45M2210	22x1,5	5/8	16	27	77	25
C45M2610	26x1,5	5/8	16	32	79	27
C45M2612	26x1,5	3/4	19	32	82	26
C45M3012	30x1,5	3/4	19	36	84	28
C45M3816*	38x1,5	1"	25	46	82	32

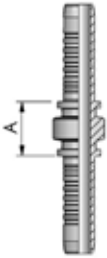
Notes

* WHILE STOCKS LAST

Note

* ARTICOLO IN ESAURIMENTO

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
MM1003	10x1	3/16	5	15	20,25	8
MM1004	10x1	1/4	6	15	20,5	8
MM1204	12x1,5	1/4	6	17	25,1	11
MM1404	14x1,5	1/4	6	19	26,2	12
MM1604	16x1,5	1/4	6	22	28,4	13
MM1605	16x1,5	5/16	8	22	28,6	13,7
MM1606	16x1,5	3/8	10	22	29,2	13
MM1608*	16x1,5	1/2	12	22	33	13
MM1806	18x1,5	3/8	10	24	30,2	14
MM1808	18x1,5	1/2	12	24	30,2	14
MM2006	20x1,5	3/8	10	27	30,9	14
MM2008	20x1,5	1/2	12	27	31,4	14
MM2205*	22x1,5	5/16	8	27	32	14
MM2206	22x1,5	3/8	10	27	31,9	15
MM2208	22x1,5	1/2	12	27	31,9	15
MM2210	22x1,5	5/8	16	27	32,4	15
MM2610	26x1,5	5/8	16	32	34,6	16
MM2612	26x1,5	3/4	19	32	35,3	16
MM3012	30x1,5	3/4	19	36	36,5	16



HOSE JUNCTIONS
GIUNZIONI PER TUBI FLESSIBILI

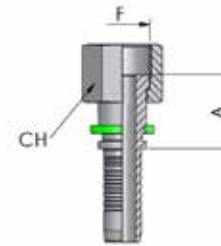
GPG

HOSE JUNCTION
GIUNZIONE PER TUBI FLESSIBILI

Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
	Inch/Pollici	DN (mm)	A	
GPG0404	1/4	6	17	
GPG0505	5/16	8	17	
GPG0606	3/8	10	17	
GPG0808	1/2	12	18	
GPG1010	5/8	16	18	
GPG1212	3/4	19	19	
GPG1616	1"	25	21	
GPG2020	1"1/4	32	24	

Notes

Note



CO² WHITWORTH FITTINGS
INSERTI CO² WITHWORTH

FW

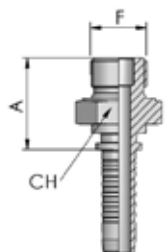
CO² FEMALE WHITWORTH
FEMMINA CO² WITHWORTH

Thread -Filetto: BSW WITHWORTH

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
FW21706	21,7	3/8	10	27	18,6
FW21708	21,7	1/2	12	27	18,6

Notes

Note



CO² WHITWORTH FITTINGS
INSERTI CO² WITHWORTH

MW

CO² MALE WHITWORTH
MASCHIO CO² WITHWORTH

Thread -Filetto: BSW WITHWORTH

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
	F	Inch/Pollici	DN (mm)	CH	A
MW21706	21,7	3/8	10	24	27
MW21708	21,7	1/2	12	24	27



JET WASH FITTINGS "K"
INSERTI IDROPULTRICE "K"

FMK

JET WASH FITTING K
FEMMINA IDROPULTRICE K

Thread -Filetto: METRIC

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
	F	Inch/Pollici	DN (mm)	CH	A
FMK2204	22x1,5	1/4	6		38,8
FMK2205	22x1,5	5/16	8		39,8
FMK2206	22x1,5	3/8	10		30,7



WELDING FITTINGS
INSERTI A SALDARE

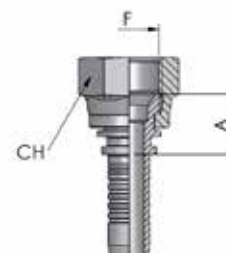
RS

WELDING INSERT
INSERTO A SALDARE

Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)
	Inch/Pollici	DN (mm)	D1
RS0406	1/4	6	6
RS0408	1/4	6	8
RS0410	1/4	6	10
RS0510	5/16	8	10
RS0512	5/16	8	12
RS0610	3/8	10	10
RS0612	3/8	10	12
RS0614	3/8	10	14
RS0814	1/2	12	14
RS0815	1/2	12	15
RS0816	1/2	12	16
RS1016	5/8	16	16
RS1018	5/8	16	18
RS1020	5/8	16	20
RS1220	3/4	19	20
RS1222	3/4	19	22
RS1225	3/4	19	25
RS1626	1"	25	26
RS2030	1"1/4	32	30
RS2032	1"1/4	32	32
RS2438	1"1/2	38	38
RS3250	2"	51	50

Notes

Note



JIS FITTINGS KOMATSU
INSERTI JIS KOMATSU

FKTS

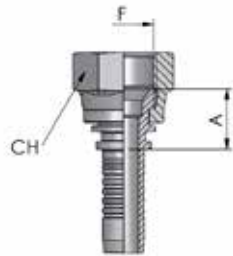
JISK - JIS KOMATSU FEMALE
JISK - FEMMINA JIS KOMATSU

Thread - Filetto: METRIC

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
FKTS1204	12X1,5	1/4	6	17	10,5
FKTS1404	14X1,5	1/4	6	19	10,5
FKTS1405	14X1,5	5/16	8	19	11
FKTS1605	16X1,5	5/16	8	22	11
FKTS1606	16X1,5	3/8	10	22	12
FKTS1806	18X1,5	3/8	10	24	12
FKTS2008	20X1,5	1/2	12	27	13
FKTS2208	22X1,5	1/2	12	27	13,5
FKTS2410	24X1,5	5/8	16	30	14

Notes

Note



JIS FITTINGS TOYOTA
 INSERTI JIS TOYOTA

FJS

JIST - JIS TOYOTA FEMALE
 JIST - FEMMINA JIS TOYOTA

Thread - Filetto: BSP

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
FJS0404	1/4-19	1/4	6	17	14,5
FJS0606	3/8-19	3/8	10	22	16,5
FJS0808	1/2-14	1/2	12	27	19
FJS1212	3/4-14	3/4	19	32	20,5
FJS1616	1"-11	1"	25	38	22

Notes

Note

DRY-SPIRAL

The combination of **FB Dry-Spiral** fittings and high pressure spiral hoses, united by an innovative crimping process, grants 1.000.000 cycles (Test in accordance with the norm EN6803).

FB Hydraulic wants to assure a constant innovation to its own customers in terms of quality and enlargement of the product range, therefore the range of Dry-Spiral fittings NO SKIVE has been born to meet specific market needs, such as the speed of assembly and the continuous cost reduction.

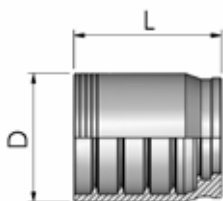
I raccordi **FB Dry-spiral** ed i tubi spiralati ad alta pressione unitamente ad un processo di raccordatura all'avanguardia permettono di garantire 1.000.000 di cicli (test realizzato secondo la norma EN6803).

FB Hydraulic vuole assicurare ai propri clienti un'innovazione costante in termini di qualità e di ampliamento della gamma dei prodotti, pertanto è nata la tipologia di raccordi Dry-spiral NO SKIVE per far fronte a specifiche esigenze di mercato, quali la velocità dei tempi di assemblaggio e la continua riduzione dei costi.

DRY-SPIRAL FITTINGS
RACCORDI DRY-SPIRAL



<p>BDR</p>  <p>94</p> <p>DRY-SPIRAL NO SKIVE FERRULE 4SP - 4SH - R12 - R13 - R15 - ISO18752 DRY-SPIRAL BOCCOLA A PRESSARE 4SP - 4SH - R12 - R13 - R15 - ISO18752</p>	<p>BDS</p>  <p>95</p> <p>DRY-SPIRAL SKIVE FERRULE 4SP - R13 - R15 - ISO18752 DRY-SPIRAL BOCCOLA A PRESSARE 4SP - R13 - R15 - ISO18752</p>	<p>DFES</p>  <p>96</p> <p>DKOS - DRY-SPIRAL METRIC O-RING FEMALE, 24° CONE, HEAVY DKOS - DRY-SPIRAL FEMMINA METRICA O-RING, CONO 24°, SERIE PESANTE</p>	<p>DC90ES</p>  <p>97</p> <p>DKOS 90° - DRY-SPIRAL METRIC O-RING FEMALE 90°, 24° CONE, HEAVY DKOS - DRY-SPIRAL FEMMINA 90° METRICA O-RING, CONO 24°, SERIE PESANTE</p>	<p>DMJ</p>  <p>110</p> <p>AGJ - DRY-SPIRAL JIC MALE, 37° CONE AGJ - DRY-SPIRAL MASCHIO JIC, CONO 37°</p>	<p>DFORFSDE</p>  <p>111</p> <p>DKO - DRY-SPIRAL ORFS FEMALE DOUBLE HEXAGON DKO - DRY-SPIRAL FEMMINA ORFS DOPPIO ESAGONO</p>	<p>DC90ORFS</p>  <p>112</p> <p>DKO 90° - DRY-SPIRAL ORFS FEMALE 90° DKO 90° - DRY-SPIRAL FEMMINA 90° ORFS</p>	<p>DCL90ORFS</p>  <p>113</p> <p>DKO 90° - DRY-SPIRAL ORFS LONG FEMALE 90° DKO 90° - DRY-SPIRAL FEMMINA LUNGA 90° ORFS</p>
<p>DC45ES</p>  <p>98</p> <p>DKOS 45° - DRY-SPIRAL METRIC O-RING FEMALE 45°, 24° CONE, HEAVY DKOS 45° - DRY-SPIRAL FEMMINA 45° METRICA O-RING, CONO 24°, SERIE PESANTE</p>	<p>DMES</p>  <p>99</p> <p>CES - DRY-SPIRAL METRIC MALE, 24° CONE, HEAVY CES - DRY-SPIRAL MASCHIO METRICO, CONO 24°, SERIE PESANTE</p>	<p>DFG</p>  <p>100</p> <p>DKOR - DRY-SPIRAL BSP FEMALE THRUST WIRE NUT O-RING, 60° CONE DKOR - DRY-SPIRAL FEMMINA BSP DADO SPINATO O-RING, CONO 60°</p>	<p>DC90G</p>  <p>101</p> <p>DKOR 90° - DRY-SPIRAL BSP FEMALE 90° THRUST WIRE NUT O-RING, 60° CONE DKOR 90° - DRY-SPIRAL FEMMINA 90° BSP DADO SPINATO O-RING, CONO 60°</p>	<p>DC45ORFS</p>  <p>114</p> <p>DKO 45° - DRY-SPIRAL ORFS FEMALE 45° DKO 45° - DRY-SPIRAL FEMMINA 45° ORFS</p>	<p>DMORFS</p>  <p>115</p> <p>AGO - DRY-SPIRAL ORFS MALE AGO - DRY-SPIRAL MASCHIO ORFS</p>	<p>DFLPI3</p>  <p>116</p> <p>SFL - DRY-SPIRAL SAE FLANGE 3000 PSI SFL - DRY-SPIRAL FLANGIA SAE 3000 PSI</p>	<p>DFLPI6</p>  <p>117</p> <p>SFS - DRY-SPIRAL SAE FLANGE 6000 PSI SFS - DRY-SPIRAL FLANGIA SAE 6000 PSI</p>
<p>DC45G</p>  <p>102</p> <p>DKOR 45° - DRY-SPIRAL BSP FEMALE 45° THRUST WIRE NUT O-RING, 60° CONE DKOR 45° - DRY-SPIRAL FEMMINA 45° BSP DADO SPINATO O-RING, CONO 60°</p>	<p>DMG</p>  <p>103</p> <p>AGR - DRY-SPIRAL BSPP MALE, 60° CONE AGR - DRY-SPIRAL MASCHIO BSPP, CONO 60°</p>	<p>DMC</p>  <p>104</p> <p>AGN - DRY-SPIRAL BSPT MALE AGN - DRY-SPIRAL MASCHIO BSPT</p>	<p>DMNPT</p>  <p>105</p> <p>AGN - DRY-SPIRAL NPTF MALE AGN - DRY-SPIRAL MASCHIO NPTF</p>	<p>DFLPI390</p>  <p>118</p> <p>SFL 90° - DRY-SPIRAL SAE FLANGE 90° 3000 PSI SFL 90° - DRY-SPIRAL FLANGIA 90° SAE 3000 PSI</p>	<p>DFLPI690</p>  <p>119</p> <p>SFS 90° - DRY-SPIRAL SAE FLANGE 90° 6000 PSI SFS 90° - DRY-SPIRAL FLANGIA 90° SAE 6000 PSI</p>	<p>DFLPI345</p>  <p>120</p> <p>SFL 45° - DRY-SPIRAL SAE FLANGE 45° 3000 PSI SFL 45° - DRY-SPIRAL FLANGIA 45° SAE 3000 PSI</p>	<p>DFLPI645</p>  <p>121</p> <p>SFS 45° - DRY-SPIRAL SAE FLANGE 45° 6000 PSI SFS 45° - DRY-SPIRAL FLANGIA 45° SAE 6000 PSI</p>
<p>DFJDE</p>  <p>106</p> <p>DKJ - DRY-SPIRAL JIC FEMALE THRUST WIRE NUT, DOUBLE HEXAGON 37° CONE DKJ - DRY-SPIRAL FEMMINA JIC DADO SPINATO, DOPPIO ESAGONO CONO 37°</p>	<p>DC90J</p>  <p>107</p> <p>DKJ 90° - DRY-SPIRAL JIC FEMALE 90° THRUST WIRE NUT, 37° CONE DKJ 90° - DRY-SPIRAL FEMMINA 90° JIC DADO SPINATO, CONO 37°</p>	<p>DCL90J</p>  <p>108</p> <p>DKJ 90° - DRY-SPIRAL JIC LONG FEMALE 90° THRUST WIRE NUT, 37° CONE DKJ 90° - DRY-SPIRAL FEMMINA LUNGA 90° JIC DADO SPINATO, CONO 37°</p>	<p>DC45J</p>  <p>109</p> <p>DKJ 45° - DRY-SPIRAL JIC FEMALE 45° THRUST WIRE NUT, 37° CONE DKJ 45° - DRY-SPIRAL FEMMINA 45° JIC DADO SPINATO, CONO 37°</p>	<p>DFLPIR6</p>  <p>122</p> <p>SFC - DRY-SPIRAL SUPERCAT FLANGE SFC - DRY-SPIRAL FLANGIA SUPERCAT</p>	<p>DFLPIR690</p>  <p>123</p> <p>SFC 90° - DRY-SPIRAL SUPERCAT FLANGE 90° SFC 90° - DRY-SPIRAL FLANGIA 90° SUPERCAT</p>	<p>DFLPIR645</p>  <p>124</p> <p>SFC 45° - DRY-SPIRAL SUPERCAT FLANGE 45° SFC 45° - DRY-SPIRAL FLANGIA 45° SUPERCAT</p>	<p>index</p> <p>1d</p> <p>94</p> <p>124</p>



DRY-SPIRAL FERRULES
BOCCOLE DRY-SPIRAL

BDR

DRY-SPIRAL NO SKIVE FERRULE 4SP - 4SH - R12 - R13 - R15 - ISO18752

DRY-SPIRAL BOCCOLA A PRESSARE 4SP - 4SH - R12 - R13 - R15 - ISO18752

Norme - Norma:

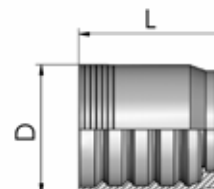
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L	
BDR08	1/2"	12	35	38	4SP-ISO
BDR10	5/8"	16	42	48	4SP-R13-ISO
BDR12	3/4"	19	45	51	4SP/H-R12/13/15-ISO
BDR16	1"	25	53	57	4SP/H-R12/13/15-ISO
BDR20	1"1/4	32	62	68	4SH-R12-ISO
BDR24	1"1/2	38	70	86	4SH-R12-ISO
BDR32	2"	51	86	100	4SH-R12-ISO

Notes

FERRULE FOR HOSE:
DIN EN 856 4SP UP TO 1 "
DIN EN 856 4SH
SAE 100 R12
SAE 100 R13 UP TO 1 "
SAE 100 R15 UP TO 1 "
YOKOHAMA ISO18752:
ISO210-280
ISO350-420 UP TO 1

Note

BOCCOLA PER TUBO:
DIN EN 856 4SP FINO A 1 "
DIN EN 856 4SH
SAE 100 R12
SAE 100 R13 FINO A 1 "
SAE 100 R15 FINO A 1 "
YOKOHAMA ISO18752:
ISO210-280
ISO350-420 FINO A 1



DRY-SPIRAL FERRULES
BOCCOLE DRY-SPIRAL

BDS

DRY-SPIRAL SKIVE FERRULE 4SP - R13 - R15 - ISO18752

DRY-SPIRAL BOCCOLA A PRESSARE 4SP - R13 - R15 - ISO18752

Notes

FERRULE FOR HOSE:
DIN EN 856 4SP
SAE 100 R13
SAE 100 R15
YOKOHAMA ISO18752:
ISO350-420 FROM 1"1/4 TO 2"

Note

BOCCOLA PER TUBO:
DIN EN 856 4SP
SAE 100 R13
SAE 100 R15
YOKOHAMA ISO18752:
ISO350-420 DA 1"1/4 A 2"

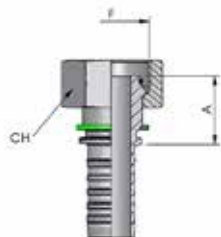
Code Article Codice Articolo	Hose Tubo		Dimensions (mm) Dimensioni (mm)		Skive ext. Pel. est. mm	Hose Type Tipo Tubo
	Inch/Pollici	DN (mm)	D	L		
BDS20	1"1/4	32	58	72	53	4SP-R13/15-ISO
BDS24	1"1/2	38	68	90	69	4SP-R13/15-ISO
BDS32	2"	51	84	105	78	4SP-R13-ISO

DRY-SPIRAL METRIC FITTINGS 24°
 INSERTI METRICI 24° DRY-SPIRAL

DFES

DKOS - DRY-SPIRAL METRIC O-RING FEMALE, 24° CONE, HEAVY
 DKOS - DRY-SPIRAL FEMMINA METRICA O-RING, CONO24°, SERIE PESANTE

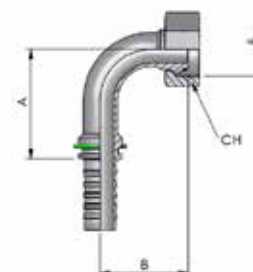
Thread - *Filetto*: METRICO - METRIC
 Norme - *Norma*: DIN 3865



Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)		mm	CH	A
DFES1608	M24X1,5	1/2	12	16	30	30.4	
DFES2010	M30X2	5/8	16	20	36	33.6	
DFES2012	M30X2	3/4	19	20	36	37	
DFES2512	M36X2	3/4	19	25	46	39	
DFES2516	M36X2	1"	25	25	46	41	
DFES3016	M42X2	1"	25	30	50	42	
DFES3020	M42X2	1"1/4	32	30	50	43	
DFES3820	M52X2	1"1/4	32	38	60	48	
DFES3824	M52X2	1"1/2	38	38	60	51	

Note



Notes

DRY-SPIRAL METRIC FITTINGS 24°
 INSERTI METRICI 24° DRY-SPIRAL

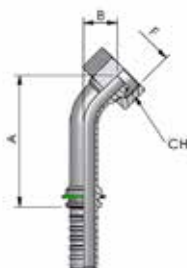
DC90ES

DKOS 90° - DRY-SPIRAL METRIC O-RING FEMALE 90°, 24° CONE, HEAVY
 DKOS 90° - DRY-SPIRAL FEMMINA 90° METRICA O-RING, CONO 24°, SERIE PESANTE

Thread - *Filetto*: METRIC
 Norme - *Norma*: DIN 3865

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)			
		Inch/Pollici	DN (mm)		mm	CH	A	B
DC90ES1608	M24X1,5	1/2	12	16	30	38	44	
DC90ES2010	M30x2	5/8	16	20	36	50	51	
DC90ES2012	M30X2	3/4	19	20	36	55	55	
DC90ES2512	M36X2	3/4	19	25	46	55	55	
DC90ES2516	M36X2	1"	25	25	46	71	69	
DC90ES3016	M42X2	1"	25	30	50	71	67	
DC90ES3020	M42X2	1"1/4	32	30	50	87	83	
DC90ES3820	M52X2	1"1/4	32	38	60	87	80	
DC90ES3824	M52X2	1"1/2	38	38	60	105	100	

Note



DRY-SPIRAL METRIC FITTINGS 24°
INSERTI METRICI 24° DRY-SPIRAL

DC45ES

DKOS 45° - DRY-SPIRAL METRIC O-RING FEMALE 45°, 24° CONE, HEAVY

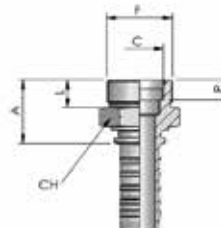
DKOS 45° - DRY-SPIRAL FEMMINA 45° METRICA O-RING, CONO 24°, SERIE PESANTE

Thread - Filetto: METRIC
Norme - Norma: DIN 3865

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)		mm	CH	A
DC45ES1608	M24X1,5	1/2	12	16	30	64	22
DC45ES2010	M30x2	5/8	16	20	36	81	26
DC45ES2012	M30x2	3/4	19	20	36	65	27
DC45ES2512	M36x2	3/4	19	25	46	66	28
DC45ES2516	M36x2	1"	25	25	46	83	34
DC45ES3016	M42x2	1"	25	30	50	82	32
DC45ES3020	M42x2	1"1/4	32	30	50	100	40
DC45ES3820	M52x2	1"1/4	32	38	60	97	38
DC45ES3824	M52x2	1"1/2	38	38	60	121	48

Notes

Note



DRY-SPIRAL METRIC FITTINGS 24°
INSERTI METRICI 24° DRY-SPIRAL

DMES

CES - DRY-SPIRAL METRIC MALE, 24° CONE, HEAVY

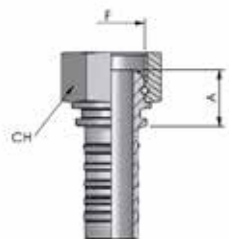
CES - DRY-SPIRAL MASCHIO METRICO, CONO 24°, SERIE PESANTE

Thread - Filetto: METRICO - METRIC
Norme - Norma: DIN3861

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Standpipe Codolo	Dimensions (mm) Dimensioni (mm)			
		Inch/Pollici	DN (mm)		mm	CH	A	P
DMES1608	M24X1,5	1/2	12	16	24	34	8.5	14
DMES2010	M30x2	5/8	16	20	30	38.2	10.5	16
DMES2012	M30x2	3/4	19	20	30	34	10.5	16
DMES2512	M36x2	3/4	19	25	36	38	12	18
DMES2516	M36x2	1"	25	25	36	40	12	18
DMES3016	M42x2	1"	25	30	46	44	13.5	20
DMES3020	M42x2	1"1/4	32	30	46	47	13,5	20
DMES3820	M52x2	1"1/4	32	38	55	51	16	22
DMES3824	M52x2	1"1/2	38	38	55	53	16	22

Notes

Note



DRY-SPIRAL BSP FITTINGS 60°
 INSERTI BSP 60° DRY-SPIRAL

DFG

DKOR - DRY-SPIRAL BSP FEMALE THRUST WIRE NUT O-RING, 60° CONE

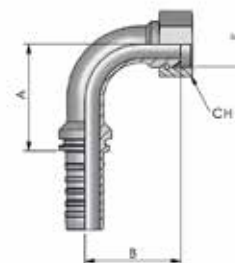
DKOR - DRY-SPIRAL FEMMINA BSP DADO SPINATO O-RING, CONO 60°

Thread - *Filetto*: BSPP
 Norme - *Norma*: SB 5200

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DFG0808	1/2-14	1/2	12	27	24.5	
DFG1210	3/4-14	5/8	16	32	27.3	
DFG1212	3/4-14	3/4	19	32	29	
DFG1216	3/4-14	1"	25	32	31,8	
DFG1220	3/4-14	1"1/4	32	32	34	
DFG1612	1"-11	3/4	19	41	33	
DFG1616	1"-11	1"	25	41	34	
DFG2016	1"1/4-11	1"	25	50	38	
DFG2020	1"1/4-11	1"1/4	32	50	39	
DFG2420	1"1/2-11	1"1/4	32	60	42	
DFG2424	1"1/2-11	1"1/2	38	60	43	
DFG3232	2"-11	2"	51	75	47	

Note



DRY-SPIRAL BSP FITTINGS 60°
 INSERTI BSP 60° DRY-SPIRAL

DC90G

DKOR 90° - DRY-SPIRAL BSP FEMALE 90° THRUST WIRE NUT O-RING, 60° CONE

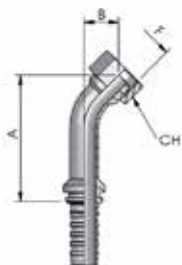
DKOR 90° - DRY-SPIRAL FEMMINA 90° BSP DADO SPINATO O-RING, CONO 60°

Thread - *Filetto*: BSPP
 Norme - *Norma*: BS 5200

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DC90G0808	1/2-14	1/2	12	27	41	46
DC90G1210	3/4-14	5/8	16	32	50	54
DC90G1212	3/4-14	3/4	19	57	55	32
DC90G1612	1"-11	3/4	19	61	55	41
DC90G1616	1"-11	1"	25	72	71	41
DC90G2016	1"1/4-11	1"	25	74	71	50
DC90G2020	1"1/4-11	1"1/4	32	88	87	50
DC90G2420	1"1/2-11	1"1/4	32	88	87	60
DC90G2424	1"1/2-11	1"1/2	38	104	105	60
DC90G3232	2"-11	2"	51	137	140	75

Note



DRY-SPIRAL BSP FITTINGS 60°
 INSERTI BSP 60° DRY-SPIRAL

DC45G

DKOR 45° - DRY-SPIRAL BSP FEMALE 45° THRUST WIRE NUT O-RING, 60° CONE

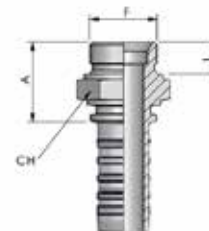
DKOR 45° - DRY-SPIRAL FEMMINA 45° BSP DADO SPINATO O-RING, CONO 60°

Thread - Filetto: BSPP
 Norme - Norma: BS 5200

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DC45G0808	1/2-14	1/2	12	27	69	24
DC45G1210	3/4-14	5/8	16	32	82	27
DC45G1212	3/4-14	3/4	19	29	67	32
DC45G1612	1"-11	3/4	19	32	70	41
DC45G1616	1"-11	1"	25	36	86	41
DC45G2016	1"1/4-11	1"	25	37	87	50
DC45G2020	1"1/4-11	1"1/4	32	43	103	50
DC45G2420	1"1/2-11	1"1/4	32	43	103	60
DC45G2424	1"1/2-11	1"1/2	38	51	123	60
DC45G3232	2"-11	2"	51	65	160	75

Notes

Note



DRY-SPIRAL BSP FITTINGS 60°
 INSERTI BSP 60° DRY-SPIRAL

DMG

AGR - DRY-SPIRAL BSPP MALE, 60° CONE

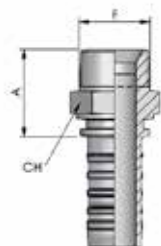
AGR - DRY-SPIRAL MASCHIO BSPP, CONO 60°

Thread - Filetto: BSPP
 Norme - Norma: BS 5200

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	L
DMG0808	1/2	1/2	12	27	32.8	14
DMG1210	3/4	5/8	16	32	36.1	16
DMG1212	3/4	3/4	19	32	38	16
DMG1612	1"-11	3/4	19	41	43	19
DMG1616	1"-11	1"	25	41	45	19
DMG2016	1"1/4-11	1"	25	50	48	20
DMG2020	1"1/4-11	1"1/4	32	50	50	20
DMG2420	1"1/2-11	1"1/4	32	55	53	22
DMG2424	1"1/2-11	1"1/2	38	55	55	22
DMG3232	2"-11	2"	51	70	63	25

Notes

Note



DRY-SPIRAL BSPT FITTINGS 60°
INSERTI BSPT 60° DRY-SPIRAL

DMC

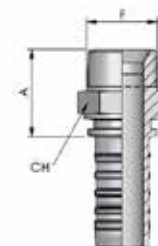
AGN - DRY-SPIRAL BSPT MALE
AGN - DRY-SPIRAL MASCHIO BSPT

Thread - *Filetto*: BSPT
Norme - *Norma*:

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
DMC0808	1/2"-14	1/2	12	22	37
DMC1212	3/4"-14	3/4	19	27	37
DMC1616	1"-11	1"	25	36	44
DMC2020	1"1/4"-11	1"1/4	32	46	51
DMC2424	1"1/2"-11	1"1/2	38	50	54
DMC3232	2"-11	2"	51	65	64

Note



DRY-SPIRAL NPT FITTINGS 60°
INSERTI NPT 60° DRY-SPIRAL

DMNPT

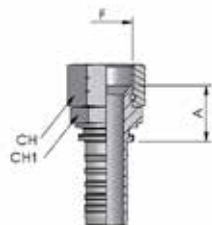
AGN - DRY-SPIRAL NPTF MALE
AGN - DRY-SPIRAL MASCHIO NPTF

Thread - *Filetto*: NPTF
Norme - *Norma*:

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
DMNPT0808	1/2"-14	1/2	12	22	37
DMNPT1212	3/4"-14	3/4"	19	27	39
DMNPT1612	1"-11,5	3/4"	19	36	47
DMNPT1216	3/4"-14	1"	25	32	41,5
DMNPT1616	1"-11,5	1"	25	36	48,5
DMNPT2016	1"1/4"-11	1"	25	46	53
DMNPT1620	1"-11,5	1"1/4	32	41	52,5
DMNPT2020	1"1/4"-11	1"1/4	32	46	55
DMNPT2420	1"1/2"-11	1"1/4	32	50	59
DMNPT2424	1"1/2"-11	1"1/2	38	50	61
DMNPT3224	2"-11,5	1"1/2	38	65	67,5
DMNPT3232	2"-11,5	2"	51	65	70,5

Note



DRY-SPIRAL JIC FITTINGS 37°
 INSERTI JIC 37° DRY-SPIRAL

DFJDE

DKJ - DRY-SPIRAL JIC FEMALE THRUST WIRE NUT DOUBLE
 HEXAGON, 37° CONE

DKJ - DRY-SPIRAL FEMMINA JIC DADO SPINATO DOPPIO ESAGONO,
 CONO 37°

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J514

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	CH1	A
DFJDE1208	3/4-16	1/2	12	22	19	29.1
DFJDE1608	7/8-14	1/2	12	27	22	31.3
DFJDE1610	7/8-14	5/8	16	27	24	31.1
DFJDE2010	1"1/16-12	5/8	16	32	27	34.6
DFJDE1612	7/8-14	3/4	19	27	27	33
DFJDE2012	1"1/16-12	3/4	19	32	27	34
DFJDE2212	1"3/16-12	3/4	19	36	30	35.5
DFJDE2512	1"5/16-12	3/4	19	41	32	38
DFJDE2016	1"1/16-12	1"	25	32	32	36.5
DFJDE2516	1"5/16-12	1"	25	41	32	39.5
DFJDE3416	1"5/8-12	1"	25	50	41	46
DFJDE2520	1"5/16-12	1"1/4	32	41	41	45.5
DFJDE3420	1"5/8-12	1"1/4	32	50	41	48
DFJDE4020	1"7/8-12	1"1/4	32	60	46	51
DFJDE4024	1"7/8-12	1"1/2	38	60	46	53
DFJDE5024	2"1/2-12	1"1/2	38	75	60	66
DFJDE5032	2"1/2-12	2"	51	75	60	69

Notes

Note



DRY-SPIRAL JIC FITTINGS 37°
 INSERTI JIC 37° DRY-SPIRAL

DC90J

DKJ 90° - DRY-SPIRAL JIC FEMALE 90° THRUST WIRE NUT, 37° CONE

DKJ 90° - DRY-SPIRAL FEMMINA 90° JIC DADO SPINATO, CONO 37°

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J514

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DC90J1208	3/4-16	1/2	12	22	41	41
DC90J1608	7/8-14	1/2	12	27	41	42
DC90J1610	7/8-14	5/8	16	27	51	49
DC90J2010	1"1/16-12	5/8	16	32	50	50
DC90J1612	7/8-14	3/4	19	27	55	55
DC90J2012	1"1/16-12	3/4	19	32	55	52
DC90J2212	1"3/16-12	3/4	19	36	55	52
DC90J2512	1"5/16-12	3/4	19	41	55	56
DC90J2016	1"1/16-12	1"	25	32	71	71
DC90J2516	1"5/16-12	1"	25	41	71	67
DC90J3416	1"5/8-12	1"	25	50	71	69
DC90J2520	1"5/16-12	1"1/4	32	41	87	84
DC90J3420	1"5/8-12	1"1/4	32	50	87	81
DC90J4020	1"7/8-12	1"1/4	32	60	87	82
DC90J4024	1"7/8-12	1"1/2	38	60	105	97
DC90J5024	2"1/2-12	1"1/2	38	75	105	102
DC90J5032	2"1/2-12	2"	51	75	140	132

Notes

Note

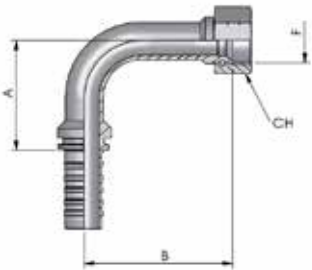
DRY-SPIRAL JIC FITTINGS 37°
 INSERTI JIC 37° DRY-SPIRAL

DCL90J

DKJ 90° - DRY-SPIRAL JIC LONG FEMALE 90° THRUST WIRE NUT, 37° CONE

DKJ 90° - DRY-SPIRAL FEMMINA 90° JIC LUNGA DADO SPINATO, CONO 37°

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J514



Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DCL90J2012	1"1/16-12	3/4	19	32	55	52
DCL90J2516	1"5/16-12	1"	25	41	71	67
DCL90J3416	1"5/8-12	1"	25	50	71	69
DCL90J3420	1"5/8-12	1"1/4	32	50	87	81
DCL90J4024	1"7/8-12	1"1/2	38	60	105	97
DCL90J5032	2"1/2-12	2"	51	75	140	132

Notes

Note



DRY-SPIRAL JIC FITTINGS 37°
 INSERTI JIC 37° DRY-SPIRAL

DC45J

DKJ 45° - DRY-SPIRAL JIC FEMALE 45° THRUST WIRE NUT, 37° CONE

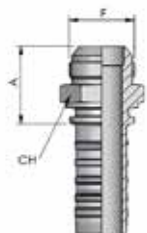
DKJ 45° - DRY-SPIRAL FEMMINA 45° JIC DADO SPINATO, CONO 37°

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J514

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DC45J1208	3/4-16	1/2	12	22	65	20
DC45J1608	7/8-14	1/2	12	27	66	21
DC45J1610	7/8-14	5/8	16	27	80	24
DC45J2010	1"1/16-12	5/8	16	32	80	25
DC45J1612	7/8-14	3/4	19	27	66	28
DC45J2012	1"1/16-12	3/4	19	32	63	25
DC45J2212	1"3/16-12	3/4	19	36	63	25
DC45J2512	1"5/16-12	3/4	19	41	66	28
DC45J2016	1"1/16-12	1"	25	32	85	35
DC45J2516	1"5/16-12	1"	25	41	82	32
DC45J3416	1"5/8-12	1"	25	50	83	33
DC45J2520	1"5/16-12	1"1/4	32	41	100	41
DC45J3420	1"5/8-12	1"1/4	32	50	98	38
DC45J4020	1"7/8-12	1"1/4	32	60	99	39
DC45J4024	1"7/8-12	1"1/2	38	60	118	46
DC45J5024	2"1/2-12	1"1/2	38	75	122	50
DC45J5032	2"1/2-12	2"	51	75	157	62

Notes

Note



DRY-SPIRAL JIC FITTINGS 37°
 INSERTI JIC 37° DRY-SPIRAL

DMJ

AGJ - DRY-SPIRAL JIC MALE, 37° CONE
 AGJ - DRY-SPIRAL MASCHIO JIC, CONO 37°

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J514

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
DMJ1208	3/4-16	1/2	12	19	33.1
DMJ1608	7/8"-14	1/2	12	24	37.2
DMJ1610	7/8"-14	5/8	16	27	37.4
DMJ2010	1"1/16-1	5/8	16	27	41.8
DMJ1612	7/8"-14	3/4	19	27	37
DMJ2012	1"1/16-1	3/4	19	27	40
DMJ2212	1"3/16-1	3/4	19	32	41.5
DMJ2512	1"5/16-1	3/4	19	36	43
DMJ2016	1"1/16-1	1"	25	32	43
DMJ2516	1"5/16-1	1"	25	36	45
DMJ3416	1"5/8-12	1"	25	46	48
DMJ2520	1"5/16-1	1"1/4	32	41	48.5
DMJ3420	1"5/8-12	1"1/4	32	46	50.5
DMJ4020	1"7/8-12	1"1/4	32	50	55
DMJ4024	1"7/8-12	1"1/2	38	50	57
DMJ5024	2"1/2-12	1"1/2	38	65	65.5
DMJ5032	2"1/2-12	2"	51	65	68.5

Notes

Note



DRY-SPIRAL ORFS FITTINGS
 INSERTI ORFS DRY-SPIRAL

DFORFSDE

DKO - DRY-SPIRAL ORFS FEMALE DOUBLE HEXAGON
 DKO - DRY-SPIRAL FEMMINA DOPPIO ESAGONO ORFS

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J1453

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	CH1	A
DFORFSDE1308	13/16-16	1/2	12	24	19	37.8
DFORFSDE1810	1"-14	5/8	16	30	24	39.2
DFORFSDE1812	1"-14	3/4	19	30	27	43
DFORFSDE2212	1"3/16-12	3/4	19	36	30	46
DFORFSDE2612	1"7/16-12	3/4	19	41	36	49
DFORFSDE2216	1"3/16-12	1"	25	36	36	50
DFORFSDE2616	1"7/16-12	1"	25	41	36	51
DFORFSDE3616	1"11/16-12	1"	25	50	41	52
DFORFSDE3620	1"11/16-12	1"1/4	32	50	41	55
DFORFSDE4624	2"-12	1"1/2	38	60	50	60

Notes

CRIMPED NUT

Note

DADO PINZATO



DRY-SPIRAL ORFS FITTINGS
 INSERTI ORFS DRY-SPIRAL

DC90ORFS

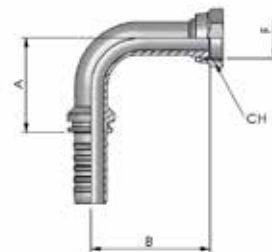
DKO 90° - DRY-SPIRAL ORFS FEMALE 90°
 DKO 90° - DRY-SPIRAL FEMMINA 90° ORFS

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J1453

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DC90ORFS1308	13/16-16	1/2	12	24	41	36
DC90ORFS1810	1"-14	5/8	16	30	51	47
DC90ORFS2212	1"3/16-12	3/4	19	36	54	48
DC90ORFS2612	1"7/16-12	3/4	19	41	54	49
DC90ORFS2616	1"7/16-12	1"	25	41	71	62
DC90ORFS3616	1"11/16-12	1"	25	50	71	62
DC90ORFS3620	1"11/16-12	1"1/4	32	50	87	75
DC90ORFS4624	2"-12	1"1/2	38	60	105	90

Note



DRY-SPIRAL ORFS FITTINGS
 INSERTI ORFS DRY-SPIRAL

DCL90ORFS

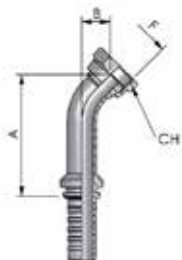
DKO 90° - DRY-SPIRAL ORFS LONG FEMALE 90°
 DKO 90° - DRY-SPIRAL FEMMINA LUNGA 90° ORFS

Thread - Filetto: UNF-UN
 Norme - Norma: SAE J1453

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DCL90ORFS2212	1"3/16-12	3/4	19	36	54	96
DCL90ORFS2616	1"7/16-12	1"	25	41	71	114
DCL90ORFS3620	1"11/16-12	1"1/4	32	50	87	130
DCL90ORFS4624	2"-12	1"1/2	38	60	105	155

Note



DRY-SPIRAL ORFS FITTINGS
 INSERTI ORFS DRY-SPIRAL

DC45ORFS

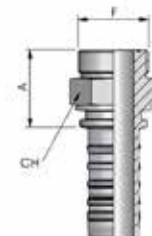
DKO 45° - DRY-SPIRAL ORFS FEMALE 45°
 DKO 45° - DRY-SPIRAL FEMMINA 45° ORFS

Thread - *Filetto*: UNF-UN
 Norme - *Norma*: SAE J1453

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	CH	A	B
DC45ORFS1308	13/16-16	1/2	12	24	61	16
DC45ORFS1810	1"-14	5/8	16	30	76	20
DC45ORFS2212	1"3/16-12	3/4	19	36	60	22
DC45ORFS2612	1"7/16-12	3/4	19	41	61	23
DC45ORFS2616	1"7/16-12	1"	25	41	78	29
DC45ORFS3616	1"11/16-12	1"	25	50	78	29
DC45ORFS3620	1"11/16-12	1"1/4	32	50	93	34
DC45ORFS4624	2"-12	1"1/2	38	60	113	41

Note



DRY-SPIRAL ORFS FITTINGS
 INSERTI ORFS DRY-SPIRAL

DMORFS

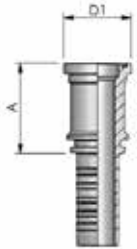
AGO - DRY-SPIRAL ORFS MALE
 AGO - DRY-SPIRAL MASCHIO ORFS

Thread - *Filetto*: UNF-UN
 Norme - *Norma*: SAE J1453

Notes

Code Article Codice Articolo	Thread Filetto	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	CH	A
DMORFS1308	13/16-16	1/2	12	22	32.6
DMORFS1810	1"-14	5/8	16	27	37.3
DMORFS2212	1"3/16-12	3/4	19	32	36
DMORFS2616	1"7/16-12	1"	25	41	41
DMORFS3620	1"11/16-12	1"1/4	32	46	44
DMORFS4624	2"-12	1"1/2	38	55	48

Note

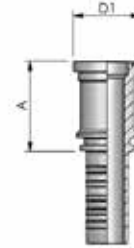


DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPI3

SFL - DRY-SPIRAL SAE FLANGE 3000 PSI
SFL - DRY-SPIRAL FLANGIA SAE 3000 PSI

Norme - Norma: SAE J518



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPI6

SFS - DRY-SPIRAL SAE FLANGE 6000 PSI
SFS - DRY-SPIRAL FLANGIA SAE 6000 PSI

Norme - Norma: SAE J518

Notes

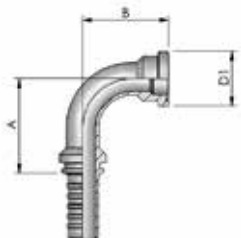
Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	D1	A
DFLPI30808	1/2	1/2	12	30.2	50.7
DFLPI31212	3/4	3/4	19	38.1	55
DFLPI31612	1"	3/4	19	44.5	57
DFLPI32012	1"1/4	3/4	19	50.8	55
DFLPI31216	3/4	1"	25	38.1	58
DFLPI31616	1"	1"	25	44.5	58
DFLPI32016	1"1/4	1"	25	50.8	63
DFLPI32416	1"1/2	1"	25	60.4	55
DFLPI31620	1"	1"1/4	32	44.5	64
DFLPI32020	1"1/4	1"1/4	32	50.8	64
DFLPI32420	1"1/2	1"1/4	32	60.4	68
DFLPI33220	2"	1"1/4	32	71.4	75
DFLPI32424	1"1/2	1"1/2	38	60.4	73
DFLPI33224	2"	1"1/2	38	71.4	76
DFLPI33232	2"	2"	51	71.4	77
DFLPI34032	2"1/2	2"	51	84.1	90

Note

Notes

Note

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)	
		Inch/Pollici	DN (mm)	D1	A
DFLPI60808	1/2	1/2	12	31.8	50.7
DFLPI61212	3/4	3/4	19	41.3	59
DFLPI61612	1"	3/4	19	47.6	61
DFLPI61216	3/4	1"	25	41.3	65
DFLPI61616	1"	1"	25	47.6	65
DFLPI62016	1"1/4	1"	25	54	69
DFLPI61620	1"	1"1/4	32	47.6	70
DFLPI62020	1"1/4	1"1/4	32	54	70
DFLPI62420	1"1/2	1"1/4	32	63.5	80
DFLPI62424	1"1/2	1"1/2	38	63.5	84
DFLPI63224	2"	1"1/2	38	79.4	99
DFLPI63232	2"	2"	51	79.4	100



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPI390

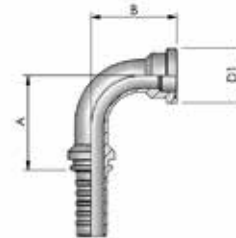
SFL 90° - DRY-SPIRAL SAE FLANGE 90° 3000 PSI
SFL 90° - DRY-SPIRAL FLANGIA 90° SAE 3000 PSI

Norme - Norma: SAE J518

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPI3900808	1/2	1/2	12	30.2	41	42
DFLPI3901212	3/4	3/4	19	38.1	55	51
DFLPI3901612	1"	3/4	19	44.5	55	55
DFLPI3902012	1"1/4	3/4	19	50.8	55	60
DFLPI3901216	3/4	1"	25	38.1	71	65
DFLPI3901616	1"	1"	25	44.5	71	61
DFLPI3902016	1"1/4	1"	25	50.8	71	61
DFLPI3902416	1"1/2	1"	25	60.4	71	61
DFLPI3901620	1"	1"1/4	32	44.5	87	79
DFLPI3902020	1"1/4	1"1/4	32	50.8	87	71
DFLPI3902420	1"1/2	1"1/4	32	60.4	87	71
DFLPI3902424	1"1/2	1"1/2	38	60.4	105	83
DFLPI3903224	2"	1"1/2	38	71.4	105	81
DFLPI3903232	2"	2"	51	71.4	140	122
DFLPI3904032	2"1/2	2"	51	84.1	140	117

Note



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPI690

SFS 90° - DRY-SPIRAL SAE FLANGE 90° 6000 PSI
SFS 90° - DRY-SPIRAL FLANGIA 90° SAE 6000 PSI

Norme - Norma: SAE J518

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPI6900808	1/2	1/2	12	31.8	41	43
DFLPI6901212	3/4	3/4	19	41.3	55	56
DFLPI6901612	1"	3/4	19	47.6	55	58
DFLPI6901216	3/4	1"	25	41.3	71	65
DFLPI6901616	1"	1"	25	47.6	71	64
DFLPI6902016	1"1/4	1"	25	54	71	64
DFLPI6901620	1"	1"1/4	32	47.6	87	79
DFLPI6902020	1"1/4	1"1/4	32	54	87	74
DFLPI6902420	1"1/2	1"1/4	32	63.5	87	76
DFLPI6902424	1"1/2	1"1/2	38	63.5	105	88
DFLPI6903224	2"	1"1/2	38	79.4	105	93
DFLPI6903232	2"	2"	51	79.4	140	123

Note



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPI345

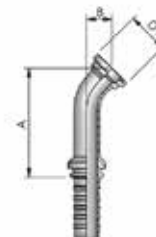
SFL 45° - DRY-SPIRAL SAE FLANGE 45° 3000 PSI
SFL 45° - DRY-SPIRAL FLANGIA 45° SAE 3000 PSI

Norme - Norma: SAE J518

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPI3450808	1/2	1/2	12	30.2	66	21
DFLPI3451212	3/4	3/4	19	38.1	63	25
DFLPI3451612	1"	3/4	19	44.5	65	27
DFLPI3451216	3/4	1"	25	38.1	81	31
DFLPI3451616	1"	1"	25	44.5	78	28
DFLPI3452016	1"1/4	1"	25	50.8	78	28
DFLPI3451620	1"	1"1/4	32	44.5	96	37
DFLPI3452020	1"1/4	1"1/4	32	50.8	91	32
DFLPI3452420	1"1/2	1"1/4	32	60.4	91	32
DFLPI3452424	1"1/2	1"1/2	38	60.4	108	36
DFLPI3453224	2"	1"1/2	38	71.4	107	35
DFLPI3453232	2"	2"	51	71.4	151	57
DFLPI3454032	2"1/2	2"	51	84.1	146	51

Note



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPI645

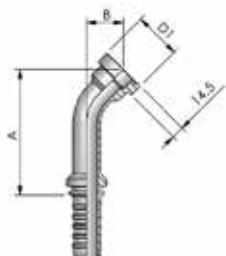
SFS 45° - DRY-SPIRAL SAE FLANGE 45° 6000 PSI
SFS 45° - DRY-SPIRAL FLANGIA 45° SAE 6000 PSI

Norme - Norma: SAE J518

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPI6450808	1/2	1/2	12	31.8	67	22
DFLPI6451212	3/4	3/4	19	41.3	66	28
DFLPI6451612	1"	3/4	19	47.6	68	29
DFLPI6451216	3/4	1"	25	41.3	81	31
DFLPI6451616	1"	1"	25	47.6	80	30
DFLPI6452016	1"1/4	1"	25	54	80	30
DFLPI6451620	1"	1"1/4	32	47.6	96	37
DFLPI6452020	1"1/4	1"1/4	32	54	93	34
DFLPI6452420	1"1/2	1"1/4	32	63.5	94	35
DFLPI6452424	1"1/2	1"1/2	38	63.5	112	40
DFLPI6453224	2"	1"1/2	38	79.4	115	43
DFLPI6453232	2"	2"	51	79.4	150	56

Note



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPIR6

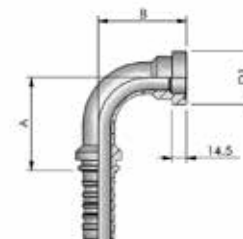
SFC - DRY-SPIRAL SUPERCAT FLANGE
SFC - DRY-SPIRAL FLANGIA SUPERCAT

Norme - Norma:

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPIR61212	3/4	3/4	19	41.3	84	
DFLPIR61612	1"	3/4	19	47.6	84	
DFLPIR61616	1"	1"	25	47.6	90	
DFLPIR62016	1"1/4	1"	25	54	90	
DFLPIR62020	1"1/4	1"1/4	32	54	88	
DFLPIR62420	1"1/2	1"1/4	32	63.5	88	
DFLPIR62424	1"1/2	1"1/2	38	63.5	84	
DFLPIR63224	2"	1"1/2	38	79.4	110	
DFLPIR63232	2"	2"	51	79.4	130	

Note



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPIR690

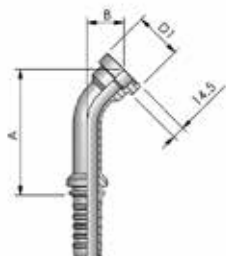
SFC 90° - DRY-SPIRAL SUPERCAT FLANGE 90°
SFC 90° - DRY-SPIRAL FLANGIA 90° SUPERCAT

Norme - Norma:

Notes

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPIR6901212	3/4	3/4	19	41.3	55	64
DFLPIR6901612	1"	3/4	19	47.6	55	64
DFLPIR6901616	1"	1"	25	47.6	71	73
DFLPIR6902016	1"1/4	1"	25	54	71	73
DFLPIR6902020	1"1/4	1"1/4	32	54	87	77
DFLPIR6902420	1"1/2	1"1/4	32	63.5	87	78
DFLPIR6902424	1"1/2	1"1/2	38	63.5	105	90
DFLPIR6903224	2"	1"1/2	38	79.4	105	94
DFLPIR6903232	2"	2"	51	79.4	140	125

Note



DRY-SPIRAL FLANGES
FLANGE DRY-SPIRAL

DFLPIR645

SFC 45° - DRY-SPIRAL SUPERCAT FLANGE 45°
SFC 45° - DRY-SPIRAL FLANGIA 45° SUPERCAT

Norme - Norma:

Code Article Codice Articolo	Flange Flangia	Hose Tubo		Dimensions (mm) Dimensioni (mm)		
		Inch/Pollici	DN (mm)	D1	A	B
DFLPIR6451212	3/4	3/4	19	41.3	72	34
DFLPIR6451612	1"	3/4	19	47.6	74	36
DFLPIR6451616	1"	1"	25	47.6	86	36
DFLPIR6452016	1"1/4	1"	25	54	86	36
DFLPIR6452020	1"1/4	1"1/4	31.5	54	96	36
DFLPIR6452420	1"1/2	1"1/4	31.5	63.5	96	36
DFLPIR6452424	1"1/2	1"1/2	38	63.5	114	41
DFLPIR6453224	2"	1"1/2	38	79.4	116	44
DFLPIR6453232	2"	2"	51	79.4	152	57

Notes

Note

EXCEED

Exceed
HIGH PRESSURE HOSES

YOKOHAMA has developed for the end user the **Exceed** hose line ensuring superior performance to European standards. The hoses offer lightness and flexibility, key features in plants with high technology standards in hydraulics.

YOKOHAMA ha sviluppato per gli utilizzatori finali la linea di tubi **Exceed** garantendo prestazioni superiori agli standard europei. Le tubazioni offrono leggerezza e flessibilità, caratteristiche fondamentali negli impianti ad alta tecnologia oleodinamica.

YOKOHAMA EXCEED HOSES
YOKOHAMA TUBI EXCEED

5a

COMPARATIVE EU NORMS / COMPARAZIONE NORMATIVE EU

ø Inside ø interno		EUROPEAN NORME DIN EN	>	NORME ISO 18752	EUROPEAN NORME DIN EN	>	NORME ISO 18752
Inch/Poll	mm						
1/2	12	4SP	>	ISO420	4SH	>	-
5/8	16		>	ISO350		>	-
3/4	19		>	ISO350		>	ISO420
1"	25		>	ISO350		>	ISO420
1"1/4	32		>	ISO210		>	ISO350
1"1/2	38		>	ISO210		>	ISO350
2"	51		>	ISO210		>	ISO280

The comparison has been done only on the working pressure / La comparazione si riferisce alle sole pressioni di esercizio

ø Inside ø interno		EUROPEAN NORME SAE 100	>	NORME ISO 18752	EUROPEAN NORME SAE 100	>	NORME ISO 18752
Inch/Poll	mm						
3/4	19	R13	>	ISO350	R15	>	ISO420
1"	25		>	ISO350		>	ISO420
1"1/4	32		>	ISO350		>	ISO420
1"1/2	38		>	ISO350		>	ISO420
2"	51		>	ISO350		>	-

5a YOKOHAMA EXCEED HOSES - YOKOHAMA TUBI EXCEED

TUBOY21	TUBOY28	TUBOY35	TUBOY42
			
130	131	132	133
HOSE ISO18752-210 BAR TUBO ISO18752-210 BAR	HOSE ISO18752-280 BAR TUBO ISO18752-280 BAR	HOSE ISO18752-350 BAR TUBO ISO18752-350 BAR	HOSE ISO18752-420 BAR TUBO ISO18752-420 BAR

index **5a**

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133

HIGH PRESSURE HOSES



EXCEED - ISOBARIC HOSES FOR VERY HIGH PRESSURE
 EXCEED - TUBI ISOBARICI PRESSIONI ELEVATE

TUBOY21

HOSE ISO18752-210 BAR
 TUBO ISO18752-210 BAR

Norme - Norma: ISO18752

Code Article Codice Articolo	Inside ø ø Interno		ø Braid ø Treccia	ø Out ø Est	W.P. Esercizio		Burst Scoppio	Radius Raggio	Weight Peso	Ferrule Boccola
	Inch/Poll	DN (mm)			bar	psi				
TUBOY0421	1/4	6	10.4	12.4	210	3000	840	45	0.18	BUK04
TUBOY0621	3/8	10	14.3	16.7	210	3000	840	60	0.36	BUK06
TUBOY0821	1/2	12	18.3	20.4	210	3000	840	80	0.49	BUK08
TUBOY1021	5/8	16	21.5	24.1	210	3000	840	110	0.64	BUK10
TUBOY1221	3/4	19	26.2	28.8	210	3000	840	130	0.93	BUK12
TUBOY1621	1"	25	33	35.9	210	3000	840	160	1.2	BUK16
TUBOY20SP	1"1/4	32	41.6	44.4	210	3000	840	280	2.1	B4H20-BHS20
TUBOY24SP	1"1/2	38	48.9	51.5	210	3000	840	330	3.02	B4H24-BHS24
TUBOY32SP	2"	51	63	66	210	3000	840	430	4.65	B4P32-BHS32

Notes

TUBE:
 SYNTHETIC RUBBER, RESISTANT AGAINST
 HYDRAULIC FLUIDS
 REINFORCEMENT:
 ONE WIRE BRAID DN 06
 TWO WIRE BRAID DN 10 - DN 25
 FOUR WIRE SPIRAL DN 32 - DN 51
 OF HIGH TENSILE STEEL WIRE
 COVER:
 ABRASION AND WEATHER RESISTANT
 SYNTHETIC RUBBER
 TEMPERATURE RANGE (FLUID):
 FROM -40°C TO 100°C FOR BRAID HOSES
 FROM -40°C TO 120°C FOR SPIRAL HOSES

Note

SOTTOSTRATO:
 GOMMA SINTETICA RESISTENTE AGLI OLII
 RINFORZO:
 UNA TRECCIA DN 06
 DUE TRECCIE DN 10 - DN 25
 QUATTRO SPIRALI DN 32 - DN 51
 DI ACCIAIO AD ALTA TENACITÀ
 COPERTURA:
 GOMMA SINTETICA RESISTENTE
 ALL'ABRASIONE E AGLI AGENTI
 ATMOSFERICI
 RANGE DELLE TEMPERATURE (FLUIDO):
 DA -40°C A +100°C TUBI TRECCIATI
 DA -40°C A +120°C TUBI SPIRALATI



EXCEED - ISOBARIC HOSES FOR VERY HIGH PRESSURE
 EXCEED - TUBI ISOBARICI PRESSIONI ELEVATE

TUBOY28

HOSE ISO18752-280 BAR
 TUBO ISO18752-280 BAR

Norme - Norma: ISO18752

Code Article Codice Articolo	Inside ø ø Interno		ø Braid ø Treccia	ø Out ø Est	W.P. Esercizio		Burst Scoppio	Radius Raggio	Weight Peso	Ferrule Boccola
	Inch/Poll	DN (mm)			bar	psi				
TUBOY0428	1/4	6	11.1	13.5	280	4000	1120	45	0.29	BUK04
TUBOY0628	3/8	10	14.3	16.9	280	4000	1120	60	0.37	BUK06
TUBOY0828	1/2	12	18.6	21.2	280	4000	1120	80	0.51	BUK08
TUBOY1028	5/8	16	24.1	26.5	280	4000	1120	140	1	B4P10-BHR10
TUBOY1228	3/4	19	27.2	29.5	280	4000	1120	170	1.15	B4P12-BHR12
TUBOY1628	1"	25	34.5	37	280	4000	1120	220	1.68	B4P16-BHR16
TUBOY2028	1"1/4	32	42.2	45.4	280	4000	1120	460	2.54	B4H20-BHS20
TUBOY2428	1"1/2	38	48.9	52.3	280	4000	1120	560	3.02	B4H24-BHS24
TUBOY32SH	2"	51	63	66	280	4000	1120	630	4.65	B4P32-BHS32

Notes

TUBE:
 SYNTHETIC RUBBER, RESISTANT AGAINST
 HYDRAULIC FLUIDS
 REINFORCEMENT:
 TWO WIRE BRAID DN 06 - DN 12
 FOUR WIRE SPIRAL DN 16 - DN 51
 OF HIGH TENSILE STEEL WIRE
 COVER:
 ABRASION AND WEATHER RESISTANT
 SYNTHETIC RUBBER
 TEMPERATURE RANGE (FLUID):
 FROM -40°C TO 100°C FOR BRAID HOSES
 FROM -40°C TO 120°C FOR SPIRAL HOSES

Note

SOTTOSTRATO:
 GOMMA SINTETICA RESISTENTE AGLI OLII
 RINFORZO:
 DUE TRECCIE DN 06 - DN 12
 QUATTRO SPIRALI DN 16 - DN 51
 DI ACCIAIO AD ALTA TENACITÀ
 COPERTURA:
 GOMMA SINTETICA RESISTENTE
 ALL'ABRASIONE E AGLI AGENTI
 ATMOSFERICI
 RANGE DELLE TEMPERATURE (FLUIDO):
 DA -40°C A +100°C TUBI TRECCIATI
 DA -40°C A +120°C TUBI SPIRALATI

EXCEED - ISOBARIC HOSES FOR VERY HIGH PRESSURE
EXCEED - TUBI ISOBARICI PRESSIONI ELEVATE

TUBOY35

HOSE ISO18752-350 BAR
TUBO ISO18752-350 BAR

Norme - Norma: ISO18752



Code Article Codice Articolo	Inside ø ø Interno		ø Braid ø Treccia	ø Out ø Est	W.P. Esercizio		Burst Scoppio	Radius Raggio	Weight Peso	Ferrule Boccola
	Inch/Poll	DN (mm)	mm	mm	bar	psi	bar	mm	Kg/mt	
TUBOY0835	1/2	12	20.7	23.1	350	5000	1400	140	0.86	B4P08-BHR08
TUBOY10SP	5/8	16	24.1	26.5	350	5000	1400	160	1	B4P10-BHR10
TUBOY12SP	3/4	19	28	30.4	350	5000	1400	180	1.34	B4P12-BHR12
TUBOY16SP	1"	25	35	37.5	350	5000	1400	240	1.93	B4P16-BHR16
TUBOY2013	1"1/4	32	45.2	48.4	350	5000	1400	280	3.67	B4P20-BHR20
TUBOY2413	1"1/2	38	52.5	56	350	5000	1400	400	4.2	B4P24-BHR24
TUBOY3213	2"	51	67.5	71.1	350	5000	1400	500	7.2	B4P32-BHR32

Notes

TUBE:
SYNTHETIC RUBBER, RESISTANT AGAINST
HYDRAULIC FLUIDS
REINFORCEMENT:
FOUR WIRE SPIRAL DN 12 - DN 25
SIX WIRE SPIRAL DN 32 - DN 51
OF HIGH TENSILE STEEL WIRE
COVER:
ABRASION AND WEATHER RESISTANT
SYNTHETIC RUBBER
TEMPERATURE RANGE (FLUID):
FROM -40°C TO 120°C

Note

SOTTOSTRATO:
GOMMA SINTETICA RESISTENTE AGLI OLII
RINFORZO:
QUATTRO SPIRALI DN 12 - DN 25
SEI SPIRALI DN 32 - DN 51
DI ACCIAIO AD ALTA TENACITÀ
COPERTURA:
GOMMA SINTETICA RESISTENTE
ALL'ABRASIONE E AGLI AGENTI
ATMOSFERICI
RANGE DELLE TEMPERATURE (FLUIDO):
DA -40°C A +120°C

EXCEED - ISOBARIC HOSES FOR VERY HIGH PRESSURE
EXCEED - TUBI ISOBARICI PRESSIONI ELEVATE

TUBOY42

HOSE ISO18752-420 BAR
TUBO ISO18752-420 BAR

Norme - Norma: ISO18752



Code Article Codice Articolo	Inside ø ø Interno		ø Braid ø Treccia	ø Out ø Est	W.P. Esercizio		Burst Scoppio	Radius Raggio	Weight Peso	Ferrule Boccola
	Inch/Poll	DN (mm)	mm	mm	bar	psi	bar	mm	Kg/mt	
TUBOY08SP	1/2	12	20.7	23.1	420	6000	1680	140	0.8	B4P08-BHR08
TUBOY1042	5/8	16	24.1	26.5	420	6000	1680	160	1	B4P10-BHR10
TUBOY12SH	3/4	19	28	30.4	420	6000	1680	180	1.3	B4P12-BHR12
TUBOY16SH	1"	25	35	37.5	420	6000	1680	240	1.9	B4P16-BHR16
TUBOY2015	1"1/4	32	-	-	420	6000	1680	-	-	-
TUBOY2415	1"1/2	38	-	-	420	6000	1680	-	-	-
TUBOY3242	2"	51	67.5	71.1	420	6000	1680	500	7.2	B4P32-BHR32

Notes

TUBE:
SYNTHETIC RUBBER, RESISTANT AGAINST
HYDRAULIC FLUIDS
REINFORCEMENT:
FOUR WIRE SPIRAL DN 12 - DN 25
SIX WIRE SPIRAL DN 51
COVER:
ABRASION AND WEATHER RESISTANT
SYNTHETIC RUBBER
TEMPERATURE RANGE (FLUID):
FROM -40°C TO 120°C

Note

SOTTOSTRATO:
GOMMA SINTETICA RESISTENTE AGLI OLII
RINFORZO:
QUATTRO SPIRALI DN 12 - DN 25
SEI SPIRALI DN 51
COPERTURA:
GOMMA SINTETICA RESISTENTE
ALL'ABRASIONE E AGLI AGENTI
ATMOSFERICI
RANGE DELLE TEMPERATURE (FLUIDO):
DA -40°C A +120°C

YOKOHAMA

GENERAL CATALOGUE
CATALOGO GENERALE

YOKOHAMA HYDRAULIC HOSES
YOKOHAMA TUBI IDRAULICI



For Hydraulic Oil

OMNIBAR 1Million cycles (JIS-K 6349), High temperature, Safety ratio 500%	OMB10F,10,15F,15,20F,20,25F,25,32F,32,35F,35
LEVEX Extremely light Superior flexibility	NWP35,70,105,140,175,210,280,350
YFH MAST Hose for Fork Lift	YFH175,210
YPH Pilot line	YPH6,9
ARMORLEX Abrasion free	AX21,28,35
SUCTION	SC Series
SAE 100R5	WSR5Z
SAE 100R2	WSR2Z
SAE 100R9	WSR9Z
SAE 100R6	L35
Mid surge	N177
Jack Hose	AJ700
Jack Hose	AJ1000
Flexible Jack Hose	NAJ700
Heat resistance	LHW
Low-mid pressure range	SPOIL
Low pressure	HI-MID
Large bore series	N300N
Large bore series	SP210

For Hydraulic Oil or Water

Thermoplastic Hose High Pressure Water	NHW
Quick and easy assembly	WS18Z
SAE 100R7	N173
Thermoplastic	NV105
Thermoplastic	NV210
Thermoplastic	NN173
Water and hot water (not available for use with oil)	
Heat resistance Reusable Fitting	HTW10
High Temperature steam	USTEMN, USTEMT

For special purpose

SAE 100R14 / Compressed gas, Fuel and lubricant handling, Steam transfer, Hydraulic Systems	ST40
HWBF(High Water Base Fluid),Water oil Emulsion type, Soluble type and hudraulic oil	G210
Mineral oil / Large bore series	SP350,WSR5
Paint solvent (hydrocarbon,ester,ketone,alcohol and ether)	N191
Phosphate esters hydraulic oil (not available for use with hydraulic oil)	P210
rolling lubricant oil (Roll Coolant)	RC205,RC35N
Water and cement milk	GT70,GT140,GT205,GT410

For Hydraulic Oil

Series	Parts Number	Page	MWP [Mpa] [PSI]	MBP [Mpa] [PSI]	Application	Operating Temperature Range (Fluid)		Construction		
						[°C]	[°F]	Tube	Reinforcement	Cover
OMNIBAR 1 Million cycles (JIS-K 6349) Safety ratio 500%	OMB10F	136	17.0 2,500	86.0 12,500	Hydraulic oil	-40~120	-40~248	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion&weather-resistant synthetic rubber
	OMB10	136	17.0 2,500	86.0 12,500						
	OMB15F	136	20.5 3,000	103.0 15,000						
	OMB15	136	20.5 3,000	103.0 15,000						
	OMB20F	136	24.0 3,500	120.0 17,500						
	OMB20	136	24.0 3,500	120.0 17,500						
	OMB25F	137	27.5 4,000	138.0 20,000						
	OMB25	137	27.5 4,000	138.0 20,000						
	OMB32F	137	31.0 4,500	155.0 22,500						
	OMB32	137	31.0 4,500	155.0 22,500						
OMB35F	137	34.5 5,000	172.5 25,000							
OMB35	137	34.5 5,000	172.5 25,000							
LEVEK Extremely light Superior flexibility	NWP35	138	3.5 500	14.0 2,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
	NWP70	138	7.0 1,000	28.0 4,000						
	NWP105	138	10.5 1,500	42.0 6,000						
	NWP140	139	14.0 2,000	56.0 8,000						
	NWP175	139	17.0 2,500	68.0 10,000						
	NWP210	139	20.5 3,000	82.0 12,000						
	NWP280	140	27.5 4,000	110.0 16,000						
	NWP350	140	34.5 5,000	138.0 20,000						
MAST Hose for Fork Lift	YFH175	141	17.0 2,500	68.0 10,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
	YFH210	141	20.5 3,000	82.0 12,000						
Pilot line	YPH	141	7.0 1,000	28.0 4,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
Abrasion free	AX21	142	20.5 3,000	82.0 12,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
	AX28	142	27.5 4,000	110.0 16,000						
	AX35	142	34.5 5,000	138.0 20,000						

Inner Diameter (mm/SI Size/DN Size/Inch/Dash)															
3.6	4.8	6.3	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8	60	63.5	76.2	101.6
3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51	60	63	76	102
-	5	6	8	10	12	16	20	25	31	40	51	60	63	76	102
1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-3/8	2-1/2	3	4
-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-64
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							
									x	x	x				
		x		x	x	x	x	x							

Series	Parts Number	Page	MWP [Mpa] [PSI]	MBP [Mpa] [PSI]	Application	Operating Temperature Range (Fluid)		Construction		
						[°C]	[°F]	Tube	Reinforcement	Cover
suction	SC	142	3.5 500	14.0 2,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R2	WSR2Z	143	~34.5 ~5,000	~137.9 ~20,000	Hydraulic oil	-40~93	-40~199	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R5	WSR5Z	143	~20.7 ~3,000	~82.7 ~12,000	Hydraulic oil	-40~93	-40~199	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R6	L35	144	3.5 500	14.0 2,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R7	N173	144	~20.5 ~3,000	~82.0 ~12,000	Hydraulic oil & Water	-40~100 [Water] ~60	-40~212 [Water] ~140	Nylon	Polyester	Polyurethane
SAE 100R9	WSR9Z	143	20.7 3,000	82.7 12,000	Hydraulic oil	-40~93	-40~199	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R14	ST40	145	~20.5 ~3,000	~82.0 ~12,000	Compressed gas, Fuel and lubricant handling, Steam transfer, Hydraulic Systems	-54~232	-65~450	Teflon® TUBE	304 stainless steel wire braid reinforcement	-
Mid surge	N177	145	10.5 1,500	59.0 8,600	Hydraulic oil	-40~100	-40~212	Nylon	Polyester yarn braid	Wire Blade
Jack Hose	AJ700	146	68.6 10,000	137.3 20,000		-20~80	-4~176	Oil resistance synthetic rubber	Wire Blade	weather-resistant synthetic rubber
Jack Hose	AJ1000	146	98.0 14,000	196.0 28,000		Oil resistance synthetic rubber	High-tensile steel wire and Aramid yarn	Abrasion & weather- resistant synthetic rubber		
Flexible Jack Hose	NAJ700	146	70 10,000	140 20,000		heat resistance, oil- resistant synthetic rubber	High-tensile steel wire	Heat-resistant acrylic, Weather- resistant synthetic rubber		
Heat resistance	LHW	147	3.5 500	14.0 2,000		-40~150	-40~302	Rayon	weather-resistant synthetic rubber	
Low-mid pressure range	SPOIL	147	1.0 145	3.9 600		-30~120	-30~248	Synthetic fiber		
Low pressure	HI-MID	148	~1.5 ~200	~6.0 ~900		-40~100	-40~212	Wire Blade		
Large bore series	N300N	148	~5.0 ~700	~25.0 ~3,500	-20~80	-4~176	Spiral Wire Blade			
	SP210	148	20.5 3,000	82.0 12,000						
For Hydraulic Oil or Water										
Thermo Plastic Hose High Pressure Water	NHW	150	13.7 2,000	50 7,300	High Pressure Water	-40~80	-40~176	Water resistance thermoplastic	Polyester fiber	Abrasion resistance polyurethane
Quick and easy assembly	WS18Z	150	1.8 300	3.5 500	Hydraulic oil & Water	-40~93 [Water] ~60 [Air] ~70	-40~199 [Water] ~140 [Air] ~158	Water resistance thermoplastic	Special synthetic fiber	Abrasion resistance polyurethane
Thermoplastic	NV105	151	10.5 1,500	42.0 6,000	Hydraulic oil & Water	-40~100 [Water] ~60	-40~212 [Water] ~140	Polyester elastomer	Polyester yarn braid	Polyester elastomer
	NV210	151	20.6 3,000	82.4 12,000		-55~100 [Water] ~60	-67~212 [Water] ~140			
	NN173	151	13.5 2,000	54.0 7,800						
Heat resistance Reusable Fitting	HTW10	152	1.0 145	4.0 600	Water and hot water (not available for use with oil)	Maximum 120	Maximum 246	Heat-resistant synthetic rubber	Special synthetic fiber	Heat-resistant synthetic rubber

Inner Diameter (mm/SI Size/DN Size/Inch/Dash)																
3.6	4.8	6.3	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8	60	63.5	76.2	101.6	
3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51	60	63	76	102	
-	5	6	8	10	12	16	20	25	31	40	51	60	63	76	102	
1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-3/8	2-1/2	3	4	
-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-64	
								x	x	x						
		x		x	x	x	x	x	x	x						
			x	x		x	x	x	x	x						
		x		x	x		x	x								
x	x						x									
								x	x							
		x	x	x		x	x	x								
		x		x	x											
													x	x	x	
													x			
		x		x	x											
		x		x	x											
		x		x	x											
		x		x	x											

Series	Parts Number	Page	MWP [Mpa] [PSI]	MBP [Mpa] [PSI]	Application	Operating Temperature Range (Fluid)		Construction		
						[°C]	[°F]	Tube	Reinforcement	Cover
						High Temperature steam	USTEMN USTEMT	152	1.8 260	-
For special purpose										
HWBF (High Water Base Fluid)	G210	153	20.5 3,000	102.5 15,000	HWBF, Water oil Emulsion type, Soluble type and hydraulic oil	5~60 [Hydraulic Oil] -40~100	5~140 [Hydraulic Oil] -40~212	Oil resistance synthetic rubber	Wire Braid Spiral wire Yarn braid	Oil resistance synthetic rubber
Large bore series	SP350	149	34.5 5,000	103.5 15,000	Mineral oil	-40~100	-40~212	Oil resistance synthetic rubber	Spiral Wire	Abrasion & weather-resistant synthetic rubber
Large bore series	WSR5	149	~2.4 ~350	~9.7 ~1,400	Mineral oil	-40~93	-40~199		Wire Braid	Yarn Braid
Paint spray hose	N191	153	20.6 3,000	68.5 10,000	Paint solvent (hydrocarbon, ester, ketone, alcohol and ether)	-20~80	-4~176	Nylon	High-tensile steel wire	vinyl chloride
Phosphate esters hydraulic oil	P210	154	20.5 3,000	102.5 15,000	Phosphate esters hydraulic oil (not available for use with hydraulic oil)	-30~100	-22~212	Phosphate esters hydraulic synthetic rubber	Wire Braid Spiral wire	weather-resistant synthetic rubber
Roll Coolant system	RC205	155	20.5 3,000	82.0 12,000	rolling lubricant oil (Roll Coolant)	-40~100	-40~212	Oil resistance synthetic rubber	Wire Braid	Abrasion & weather-resistant synthetic rubber
	RC35N	155	3.5 500	14.0 2,000						
Water and cement milk	GT70	156	7.0 1,000	-	Water and cement milk	5~60	41~140	Abrasion resistance and water proof synthetic rubber	Wire Braid	Abrasion resistant synthetic rubber
	GT140	156	14.0 2,000	-						
	GT205	156	20.5 3,000	-						
	GT410	156	41.0 6,000	-						

Inner Diameter (mm/SI Size/DN Size/Inch/Dash)															
3.6	4.8	6.3	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8	60	63.5	76.2	101.6
3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51	60	63	76	102
-	5	6	8	10	12	16	20	25	31	40	51	60	63	76	102
1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-3/8	2-1/2	3	4
-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-64
					x		x	x	x	x	x				
			x		x	x		x	x	x	x				
													x		
												x		x	
	x	x		x											
		x		x	x		x	x	x	x	x				
		x		x	x		x	x	x	x	x				
												x		x	
					x			x	x	x	x				
								x	x	x	x				
								x							

OMNIBAR / 1Million cycles(JIS-K 6349), High temperature, Safety ratio 500%

Feature

While maintaining the excellent Hi Impulse and long durability features of the conventional Omnibar series, that is commonly called "OMB," this series further enhanced flexibility while decreasing the minimum bend radius, and made possible more compact piping designs.

These hoses have passed an endurance test of 1 million repetitions of being bent to the minimum radius under a standard JIS K 6349 and meet with ISO 18752 Grade D with a constant oil temperature of 120 °C.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : High-tensile steel wire
 Outer Cover : Abrasion&weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 120 °C -40 ~ 248 °F

OMB 10								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
OMB10F-04	6.3	1/4	13.4	1W/B	17.0	86.0	60	210
OMB10F-06	9.5	3/8	17.9	2W/B	17.0	86.0	80	440
OMB10F-08	12.7	1/2	21.4	2W/B	17.0	86.0	95	590
OMB10F-10	15.9	5/8	25.1	2W/B	17.0	86.0	115	780
OMB10F-12	19.0	3/4	28.8	2W/B	17.0	86.0	130	950
OMB10F-16	25.4	1	36.1	4W/S	17.0	86.0	170	1,400
OMB10-20	31.8	1 1/4	45.4	4W/S	17.0	86.0	250	2,490
OMB10-24	38.1	1 1/2	52.3	4W/S	17.0	86.0	300	2,970
OMB10-32	50.8	2	66.0	4W/S	17.0	86.0	370	4,650

OMB 15								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
OMB15F-04	6.3	1/4	14.9	2W/B	20.5	103.0	70	370
OMB15F-06	9.5	3/8	18.4	2W/B	20.5	103.0	90	540
OMB15F-08	12.7	1/2	21.5	2W/B	20.5	103.0	100	600
OMB15F-10	15.9	5/8	25.2	2W/B	20.5	103.0	125	800
OMB15F-12	19.0	3/4	29.4	4W/S	20.5	103.0	150	1,100
OMB15F-16	25.4	1	36.2	4W/S	20.5	103.0	190	1,450
OMB15-20	31.8	1 1/4	45.4	4W/S	20.5	103.0	280	2,490
OMB15-24	38.1	1 1/2	52.3	4W/S	20.5	103.0	340	3,020
OMB15-32	50.8	2	66.0	4W/S	20.5	103.0	380	4,650

OMB 20								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
OMB20F-04	6.3	1/4	15.0	2W/B	24.0	120.0	70	380
OMB20F-06	9.5	3/8	18.5	2W/B	24.0	120.0	90	550
OMB20F-08	12.7	1/2	22.9	4W/S	24.0	120.0	110	830
OMB20F-10	15.9	5/8	26.3	4W/S	24.0	120.0	130	960
OMB20F-12	19.0	3/4	29.5	4W/S	24.0	120.0	160	1,130
OMB20F-16	25.4	1	36.9	4W/S	24.0	120.0	200	1,640
OMB20-20	31.8	1 1/4	48.4	6W/S	24.0	120.0	330	3,610
OMB20-24	38.1	1 1/2	55.3	6W/S	24.0	120.0	400	4,210
OMB20-32	50.8	2	70.5	6W/S	24.0	120.0	470	6,740

OMB 25								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
OMB25F-04	6.3	1/4	15.0	2W/B	27.5	138.0	70	380
OMB25F-06	9.5	3/8	18.5	2W/B	27.5	138.0	90	550
OMB25F-08	12.7	1/2	23.0	4W/S	27.5	138.0	110	840
OMB25F-10	15.9	5/8	26.4	4W/S	27.5	138.0	140	970
OMB25F-12	19.0	3/4	29.5	4W/S	27.5	138.0	170	1,150
OMB25F-16	25.4	1	37.0	4W/S	27.5	138.0	220	1,680
OMB25-20	31.8	1 1/4	48.4	6W/S	27.5	138.0	340	3,610
OMB25-24	38.1	1 1/2	55.3	6W/S	27.5	138.0	430	4,210
OMB25-32	50.8	2	71.1	6W/S	27.5	138.0	480	7,200

OMB 32								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
OMB32F-04	6.3	1/4	15.0	2W/B	31.0	155.0	90	390
OMB32F-06	9.5	3/8	18.9	2W/B	31.0	155.0	120	560
OMB32F-08	12.7	1/2	23.0	4W/S	31.0	155.0	120	850
OMB32F-10	15.9	5/8	26.4	4W/S	31.0	155.0	150	980
OMB32F-12	19.0	3/4	30.3	4W/S	31.0	155.0	180	1,300
OMB32F-16	25.4	1	37.4	4W/S	31.0	155.0	230	1,900
OMB32-20	31.8	1 1/4	48.4	6W/S	31.0	155.0	350	3,670
OMB32-24	38.1	1 1/2	56.0	6W/S	31.0	155.0	450	4,200
OMB32-32	50.8	2	71.1	6W/S	31.0	155.0	490	7,200

OMB 35								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
OMB35F-04	6.3	1/4	15.1	2W/B	34.5	172.5	90	400
OMB35F-06	9.5	3/8	19.0	2W/B	34.5	172.5	120	570
OMB35F-08	12.7	1/2	23.1	4W/S	34.5	172.5	140	860
OMB35F-10	15.9	5/8	26.5	4W/S	34.5	172.5	160	1,000
OMB35F-12	19.0	3/4	30.4	4W/S	34.5	172.5	190	1,340
OMB35F-16	25.4	1	37.5	4W/S	34.5	172.5	240	1,930
OMB35-20	31.8	1 1/4	48.4	6W/S	34.5	172.5	370	3,670
OMB35-24	38.1	1 1/2	56.0	6W/S	34.5	172.5	470	4,200
OMB35-32	50.8	2	71.1	6W/S	34.5	172.5	500	7,200

LEVELX / Extremely light Superior flexibility

Feature

Employing strong resistance to rubbing and a weather-resistant abrasive cover, these hoses have a small external diameter, are able to form a small bend radius, lightweight, and easy-to-handle. Based on JIS K 6349.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : High-tensile steel wire
 Outer Cover : Abrasion & weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

NWP 35								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP35 6	6.3	1/4	11.7	1W/B	3.5	14.0	40	165
NWP35 9	9.5	3/8	14.9	1W/B	3.5	14.0	50	200
NWP35 12	12.7	1/2	19.0	1W/B	3.5	14.0	60	310
NWP35 15	15.9	5/8	23.2	1W/B	3.5	14.0	80	430
NWP35 19	19.0	3/4	25.6	1W/B	3.5	14.0	100	430
NWP35 25	25.4	1	32.2	1W/B	3.5	14.0	120	580
NWP35 32	31.8	1 1/4	39.9	1W/B	3.5	14.0	190	780
NWP35 38	38.1	1 1/2	46.2	1W/B	3.5	14.0	230	950
NWP35 50	50.8	2	61.0	2W/B	3.5	14.0	300	2,000

NWP 70								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP70 6	6.3	1/4	11.8	1W/B	7.0	28.0	40	170
NWP70 9	9.5	3/8	14.9	1W/B	7.0	28.0	50	210
NWP70 12	12.7	1/2	19.0	1W/B	7.0	28.0	60	320
NWP70 15	15.9	5/8	23.2	1W/B	7.0	28.0	80	450
NWP70 19	19.0	3/4	25.7	1W/B	7.0	28.0	100	450
NWP70 25	25.4	1	32.3	1W/B	7.0	28.0	120	600
NWP70 32	31.8	1 1/4	41.2	2W/B	7.0	28.0	240	1,270
NWP70 38	38.1	1 1/2	47.7	2W/B	7.0	28.0	290	1,450
NWP70 50	50.8	2	61.0	2W/B	7.0	28.0	370	2,060

NWP 105								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP105 6	6.3	1/4	12.3	1W/B	10.5	42.0	45	175
NWP105 9	9.5	3/8	15.0	1W/B	10.5	42.0	50	220
NWP105 12	12.7	1/2	19.1	1W/B	10.5	42.0	60	340
NWP105 15	15.9	5/8	23.2	1W/B	10.5	42.0	80	460
NWP105 19	19.0	3/4	26.7	1W/B	10.5	42.0	100	620
NWP105 25	25.4	1	34.8	2W/B	10.5	42.0	130	1,100
NWP105 32	31.8	1 1/4	41.2	2W/B	10.5	42.0	240	1,320
NWP105 38	38.1	1 1/2	50.5	4W/S	10.5	42.0	290	2,370
NWP105 50	50.8	2	64.5	4W/S	10.5	42.0	370	3,550

NWP 140								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP140 6	6.3	1/4	12.3	1W/B	14.0	56.0	45	175
NWP140 9	9.5	3/8	15.0	1W/B	14.0	56.0	50	220
NWP140 12	12.7	1/2	19.1	1W/B	14.0	56.0	60	340
NWP140 15	15.9	5/8	24.0	2W/B	14.0	56.0	95	620
NWP140 19	19.0	3/4	27.9	2W/B	14.0	56.0	110	790
NWP140 25	25.4	1	35.4	2W/B	14.0	56.0	140	1,170
NWP140 32	31.8	1 1/4	43.5	4W/S	14.0	56.0	240	1,750
NWP140 38	38.1	1 1/2	50.5	4W/S	14.0	56.0	290	2,410
NWP140 50	50.8	2	64.5	4W/S	14.0	56.0	370	3,550

NWP 175								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP175 6	6.3	1/4	12.4	1W/B	17.0	68.0	45	180
NWP175 9	9.5	3/8	16.2	1W/B	17.0	68.0	60	310
NWP175 12	12.7	1/2	20.3	2W/B	17.0	68.0	80	470
NWP175 15	15.9	5/8	24.1	2W/B	17.0	68.0	100	640
NWP175 19	19.0	3/4	28.7	2W/B	17.0	68.0	120	900
NWP175 25	25.4	1	35.6	2W/B	17.0	68.0	160	1,300
NWP175 32	31.8	1 1/4	44.3	4W/S	17.0	68.0	250	1,930
NWP175 38	38.1	1 1/2	51.4	4W/S	17.0	68.0	300	2,750
NWP175 50	50.8	2	64.5	4W/S	17.0	68.0	430	3,600

NWP 210								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP210 6	6.3	1/4	12.4	1W/B	20.5	82.0	45	180
NWP210 9	9.5	3/8	16.7	2W/B	20.5	82.0	60	360
NWP210 12	12.7	1/2	20.4	2W/B	20.5	82.0	80	490
NWP210 15	15.9	5/8	24.1	2W/B	20.5	82.0	110	640
NWP210 19	19.0	3/4	28.7	2W/B	20.5	82.0	130	930
NWP210 25	25.4	1	35.9	4W/S	20.5	82.0	180	1,380
NWP210 32	31.8	1 1/4	44.3	4W/S	20.5	82.0	280	1,980
NWP210 38	38.1	1 1/2	51.4	4W/S	20.5	82.0	330	2,800
NWP210 50	50.8	2	65.9	4W/S	20.5	82.0	430	4,600

LEVELX / Extremely light Superior flexibility

NWP 280								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP280 6	6.3	1/4	13.7	2W/B	27.5	110.0	45	280
NWP280 9	9.5	3/8	16.9	2W/B	27.5	110.0	60	370
NWP280 12	12.7	1/2	21.2	2W/B	27.5	110.0	80	510
NWP280 15	15.9	5/8	26.5	4W/S	27.5	110.0	140	1,000
NWP280 19	19.0	3/4	29.5	4W/S	27.5	110.0	170	1,150
NWP280 25	25.4	1	37.0	4W/S	27.5	110.0	220	1,680
NWP280 32	31.8	1 1/4	48.3	6W/S	27.5	110.0	280	3,580
NWP280 38	38.1	1 1/2	55.9	6W/S	27.5	110.0	330	3,930
NWP280 50	50.8	2	71.0	6W/S	27.5	110.0	430	7,100

NWP 350								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NWP350 6	6.3	1/4	15.0	2W/B	34.5	138.0	90	380
NWP350 9	9.5	3/8	18.9	2W/B	34.5	138.0	120	550
NWP350 12	12.7	1/2	23.0	4W/S	34.5	138.0	140	840
NWP350 15	15.9	5/8	26.5	4W/S	34.5	138.0	160	1,050
NWP350 19	19.0	3/4	30.4	4W/S	34.5	138.0	190	1,340
NWP350 25	25.4	1	37.4	4W/S	34.5	138.0	240	1,930
NWP350 32	31.8	1 1/4	48.3	6W/S	34.5	138.0	280	3,640
NWP350 38	38.1	1 1/2	55.9	6W/S	34.5	138.0	400	3,980
NWP350 50	50.8	2	71.0	6W/S	34.5	138.0	500	7,150

YFH / MAST Hose for Fork Lift

Feature

Cover material with abrasion resistance is implemented.
Abrasion against other hose or piping is minimized.
Compact bend radius makes to use for most hose of Fork Lift.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : High-tensile steel wire
Outer Cover : Abrasion&weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

YFH175								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
YFH175 6	6.3	1/4	13.5	2W/B	17	68	45	280
YFH175 9	9.5	3/8	16.7	2W/B	17	68	60	360
YFH175 12	12.7	1/2	20.4	2W/B	17	68	80	490

YFH210								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
YFH210 6	6.3	1/4	13.5	2W/B	20.5	82	45	280
YFH210 9	9.5	3/8	16.7	2W/B	20.5	82	60	360
YFH210 12	12.7	1/2	20.4	2W/B	20.5	82	80	490
YFH210 15	15.9	5/8	24.1	2W/B	20.5	82	95	640

YPH / Pilot line

Feature

YPH series was developed just for pilot line.
It's minimized small outside diameter ideally suited to the compact lay line requirement.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : High-tensile steel wire
Outer Cover : weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

YPH								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
YPH 6	6.3	1/4	11.8	1W/B	7.0	28.0	40	180
YPH 9	9.5	3/8	14.8	1W/B	7.0	28.0	50	220

ARMORLEX / Abrasion free

Feature

AX series is processed abrasion resistance sheet on outer cover.
Protector for abrasion on hose is not required.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : High-tensile steel wire
Outer Cover : Abrasion&weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100 °C -40 ~ 212 °F

ARMORLEX								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
AX21 6	6.3	1/4	13.5	2W/B	20.5	82.0	50	280
AX21 9	9.5	3/8	16.7	2W/B	20.5	82.0	60	360
AX21 12	12.7	1/2	20.4	2W/B	20.5	82.0	70	490
AX21 15	15.9	5/8	24.1	2W/B	20.5	82.0	95	620
AX28 12	12.7	1/2	23.1	4W/S	27.5	110.0	110	850
AX28 15	15.9	5/8	27.5	4W/S	27.5	110.0	140	1,200
AX28 19	19.0	3/4	30.5	4W/S	27.5	110.0	170	1,320
AX35 12	12.7	1/2	23.1	4W/S	34.5	138.0	140	850
AX35 15	15.9	5/8	27.5	4W/S	34.5	138.0	160	1,220
AX35 19	19.0	3/4	30.5	4W/S	34.5	138.0	190	1,340

SUCTION

Feature

SC series were designed for suction line.
Maximum suction/vacuum pressure is -86kPa.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : High-tensile steel wire
Outer Cover : weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100 °C -40 ~ 212 °F

Maximum Vacuum Pressure

-86 kPa

Suction								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
SC 25	25.4	1	35.0	1W/B	3.5	14.0	150	800
SC 32	31.8	1 1/4	40.5	1W/B	3.5	14.0	200	980
SC 38	38.1	1 1/2	47.5	1W/B	3.5	14.0	250	1,130

SAE 100R5

Feature

W series is high pressure hose which cleared SAE standard specification.
Fittings of W series was implemented field assembly.

- ① Easy for on site assembly. Hose can be cut suitable length for equipments.
- ② It enhance minimized down time to replace hose assembly built into equipments.
- ③ No needs to purchase full assembly hose. It minimize excess inventory.

Construction

Inner Tube : Oil resistance synthetic rubber.
Reinforcement : Wire braid, Spiral Wire braid.
Outer Cover : Abrasion & weather-resistant synthetic rubber.

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 93 °C -40 ~ 199 °F

WSR2Z equivalent to SAE 100R2								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
WSR2Z-04	6.4	1/4	17.5	2W/B	35	140	100	500
WSR2Z-06	9.5	3/8	21.4	2W/B	28	112	125	650
WSR2Z-08	12.7	1/2	24.6	2W/B	24.5	98	175	850
WSR2Z-12	19.0	3/4	31.8	2W/B	15.7	62.8	240	1,100
WSR2Z-16	25.4	1	39.7	2W/B	14	56	300	1,600
WSR2Z-20	31.8	1 1/4	50.8	2W/B	11.3	45.2	420	2,550
WSR2Z-24	38.1	1 1/2	57.1	2W/B	8.7	34.8	500	3,000

WSR5Z equivalent to SAE 100R5								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
WSR5Z-05	6.4	1/4	14.7	1W/B	21	84	85	295
WSR5Z-06	7.9	5/16	17.1	1W/B	15.7	62.8	100	330
WSR5Z-10	12.7	1/2	23.4	1W/B	12.2	48.4	140	560
WSR5Z-12	15.9	5/8	27.4	1W/B	10.5	42	165	735
WSR5Z-16	22.2	7/8	31.3	1W/B	5.6	22.4	185	755
WSR5Z-20	28.6	1 1/8	38.1	1W/B	4.3	17.2	230	810
WSR5Z-24	34.9	1 3/8	44.4	1W/B	3.5	14	265	1,000

WSR9Z equivalent to SAE 100R9								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
WSR9Z-12	19.0	3/4	31.1	4W/S	21	84	240	1,100
WSR9Z-16	25.4	1	39.5	4W/S	21	84	300	1,760

SAE 100R6

Feature

Light weighty and flexible hose for low-mid pressure range passed ISO4079-R6, SAE100R6.
Easy to assembly by field crimp machine.

Construction

Inner Tube : Oil resistance synthetic rubber.
Reinforcement : Wire braid, Spiral Wire braid.
Outer Cover : Weather-resistant synthetic rubber.

Application
Hydraulic oil

Operating Temperature Range
-40 ~ 100 °C -40 ~ 212 °F

L35 equivalent to SAE 100R6

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
L356	6.3	1/4	12.7	2Y/S	3.5	14.0	65	135
L359	9.5	3/8	15.9	2Y/S	3.5	14.0	75	180
L3512	12.7	1/2	19.8	2Y/S	3.5	14.0	100	250
L3519	19.0	3/4	27.0	1Y/B	3.5	14.0	150	480
L3525	25.4	1	34.9	1Y/B	3.5	14.0	200	720

SAE 100R14

Feature

Advantage for flexibility, temperature and chemical proof.
No viscous tube much with high viscosity fluid such as adhesive, coating material etc. Also much with cleanliness factor fluid like steam or machine for food materials. Inner core vertically extruded to maintain highest quality of concentricity.
304 stainless steel wire braid reinforcement.
Meets or exceeds requirement of SAE100R14- PTFE meets FDA 21CFR 177.1550.

Construction

Inner Tube : Teflon® TUBE
Reinforcement : 304 stainless steel wire braid reinforcement

Application

Compressed gas, Fuel and lubricant handling, Steam transfer, Hydraulic Systems

Operating Temperature Range
-54 °C ~ 232 °C for continuous service
-65 °C ~ 450 °F

ST40 equivalent to SAE 100R14

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
ST40-04	4.8	3/16	7.7	-	20.5	82.0	50	105
ST40-05	6.4	1/4	9.5	-	20.5	82.0	75	120
ST40-06	7.9	5/16	11.0	-	17.0	68.0	100	150
ST40-10	12.7	1/2	16.1	-	12.0	48.0	165	215
ST40-12	15.9	5/8	19.4	-	10.5	42.0	191	285
ST40-16	22.2	7/8	26.2	-	7.0	28.0	230	430

SAE 100R7

Feature

N173 hose is equivalent to SAE100R7.
N173 hose series has hose size of which NN173 has no availability of the same size.

Construction

Inner Tube : -02,-03:Nylon -12:Polyester
Reinforcement : Polyester yarn braid
Outer Cover : Polyurethane

Application
Hydraulic oil

Operating Temperature Range
-40 ~ 100 °C (up~ 60 °C when using water)
-40 ~ 212 °F (up~ 140 °F when using water)

N173 equivalent to SAE 100R7

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
N173-02	3.6	1/8	8.8	1Y/B	21	82.0	15	35
N173-03	4.8	3/16	10.0	1Y/B	21	82.0	30	40
N173-12	19.0	3/4	27.0	1Y/B	8.7	34.0	165	310

Mid surge

Feature

N177 hose wears wire braid to build in machining tool.

Construction

Inner Tube : Nylon
Reinforcement : Polyester yarn braid
Outer Cover : Wire braid

Application
Hydraulic oil

Operating Temperature Range
-40 ~ 100 °C -40 ~ 212 °F

N177 Mid surge / Thermo Plastic

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
N177-04	6.3	1/4	11.4	1Y/B	10.5	59.0	35	150
N177-06	9.5	3/8	15.0	1Y/B	10.5	59.0	50	200
N177-08	12.7	1/2	19.0	1Y/B	10.5	59.0	75	330

Jack Hose

Feature

Reinforcement is implemented Aramid yarn braid.
It enhanced flexibility by 50% and lighten weight by 30% compared to conventional jack hose.

Construction

Inner Tube : Oil hesitance synthetic rubber
Reinforcement : High-tensile steel wire and Aramid yarn
Outer Cover : Abrasion & weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

New AJ for Jack

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NAJ700 6	6.3	1/4	15.8	1A/B + 1W/B	70	140	100	300
NAJ700 9	9.5	3/8	19.7	1A/B + 1W/B	70	140	120	440
NAJ700 12	12.7	1/2	23.6	1A/B + 1W/B	70	140	140	550

Feature

AJ hose series endurance up to 68.6MPa(700kg/cm²) through 98.0MPa(1000kg/cm²).
Cubic expansion is small because pressure is transferred swiftly, precisely, and light weight.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Wire braid
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

AJ for Jack

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
AJ700 5	4.8	3/16	13.2	2W/B	68.6	137.3	80	350
AJ700 6	6.3	1/4	15.7	2W/B	68.6	137.3	100	430
AJ700 9	9.5	3/8	19.4	2W/B	68.6	137.3	130	620
AJ700 12	12.7	1/2	23.8	2W/B	68.6	137.3	160	920
AJ1000 5	4.8	3/16	13.2	2W/B	98.0	196.0	80	350
AJ1000 6	6.3	1/4	15.7	2W/B	98.0	196.0	100	430
AJ1000 9	9.5	3/8	19.4	2W/B	98.0	196.0	130	620

Heat resistance

Feature

As a result of improvement of the quality of the inside and outside rubbers, the heat resistance performance was much improved. The maximum temperature for the use of the HW series now reaches at 150 °C The life expectancy of the HW series has been also improved at the 120 °C

Construction

Inner Tube : heat resistance, oil-resistant synthetic rubber
Reinforcement : High tension copper wire
Outer Cover : Heat-resistant acrylic, Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 150°C -40 ~ 302°F

LHW for Heat resistance

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
LHW 6	6.3	1/4	13.5	1W/B	3.5	14.0	60	220
LHW 9	9.5	3/8	16.8	1W/B	3.5	14.0	80	300
LHW 12	12.7	1/2	20.2	1W/B	3.5	14.0	90	430
LHW 15	15.9	5/8	23.3	1W/B	3.5	14.0	120	500
LHW 19	19.0	3/4	26.8	1W/B	3.5	14.0	140	645
LHW 25	25.4	1	32.8	1W/B	3.5	14.0	190	690
LHW 32	31.8	1 1/4	40.5	1W/B	3.5	14.0	230	930
LHW 38	38.1	1 1/2	47.5	1W/B	3.5	14.0	290	1,160
LHW 50	50.4	2	61.1	2W/B	3.5	14.0	370	1,790

Low-mid pressure range

Feature

Low-mid pressure range hose for High temperature resistant.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Rayon
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-30 ~ 120°C -30 ~ 248°F

SPOIL for Low-Mid pressure

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
SPOIL 9	9.5	3/8	19.0	2Y/S	1.0	3.9	115	260
SPOIL 12	12.7	1/2	22.5	2Y/S	1.0	3.9	135	370
SPOIL 19	19.0	3/4	31.0	2Y/S	1.0	3.9	185	640

Low pressure

Feature

We recommend HI-Mid hose series for low pressure of inner diameter 6 to 25.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : Synthetic fiber
 Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

HI-MID for Low pressure								
Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
HI-MID 6	6.3	1/4	13.8	2Y/S	1.5	6.0	100	150
HI-MID 9	9.5	3/8	17.0	2Y/S	1.5	6.0	120	200
HI-MID 12	12.7	1/2	20.5	2Y/S	1.5	6.0	150	260
HI-MID 19	19.0	3/4	27.5	1Y/B	1.0	4.0	210	390
HI-MID 25	25.4	1	34.0	1Y/B	1.0	4.0	250	510

Large bore series

Feature

Large inner diameter rubber hose series
 In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.
 This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : Wire braid
 Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

N300N Large Bore								
Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
N300N 65	63.5	2 1/2	76.0	2W/B	5.0	25.0	660	2,780
N300N 75	76.2	3	89.0	2W/B	3.0	15.0	800	3,180
N300N 100	101.6	4	117.5	3W/B	3.0	15.0	950	5,400

Feature

Large inner diameter rubber hose series
 In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.
 This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : Spiral wire
 Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

SP210 Large Bore								
Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
SP210 65	63.5	2 1/2	87.0	6W/S	20.5	82.0	600	9,200

Feature

Large inner diameter rubber hose series
 In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.
 This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : Spiral wire
 Outer Cover : Abrasion & weather-resistant synthetic rubber.

Application

Mineral oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

SP350 Large Bore								
Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
SP350 65	63.5	2 1/2	87.0	6W/S	34.5	103.5	600	9,200

Feature

Large inner diameter rubber hose series
 In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.
 This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : Wire braid
 Outer Cover : Yarn braid

Application

Mineral oil

Operating Temperature Range

-40 ~ 93°C -40 ~ 199°F

WSR5 Large Bore								
Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
WSR5-40	60.3	2 1/2	73.0	1W/B	2.4	9.7	610	2,210
WSR5-48	76.2	3	90.5	1W/B	1.4	5.5	840	3,040

Quick and easy assembly

Feature

Quick and easy assembly: Only cut a hose to the required length and insert fitting (WS18 Stockless Reusable fitting) after lubricating it. Special hose insertion tool is available.)

Fittings can be reusable. All fittings are reusable. Even if a hose is damaged, the metal fittings can be reused unless there is a deformation or flaw on them.

Reduce inventory: As the hoses can be assembled easily, there is no need to stock hose assemblies of a specific length and fittings.

You can stock hoses and fittings separately and can reduce inventory.

We have Black, Blue, Green and Red color. You can change hose at application line.

(-12 only Black color)

Construction

Inner Tube : Oil resistance synthetic rubber

Reinforcement : High-tensile steel wire

Outer Cover : weather-resistant synthetic rubber

Application

General-use working oil, lubrication oil, fuel oil, and air.

Operating Temperature Range

-40 °C ~ 93 °C (Oil), ~ 70 °C (Air), ~ 60 °C (Water)

-40 °C ~ 199 °F (Oil), ~ 158 °F (Air), ~ 140 °F (Water)

WS18Z socket less hose

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
WS18Z-04	6.3	1/4	12.7	1Y/B	1.8	7.0	76	120
WS18Z-06	9.5	3/8	15.9	1Y/B	1.8	7.0	76	160
WS18Z-08	12.7	1/2	19.0	1Y/B	1.8	7.0	127	220
WS18Z-12	19.0	3/4	26.2	1Y/B	1.8	7.0	178	340

Thermoplastic Hose High Pressure Water

Feature

Designed for high pressure cleaning hose built into coin car washing machine and portable washers and cleaners.

Construction

Inner Tube : Water resistant thermo plastics.

Reinforcement : Polyester fiber

Outer Cover : Abrasion resistance polyurethane

Application

High pressure water

Operating Temperature Range

-40 ~ 80 °C -40 ~ 176 °F

NHW for high pressure water

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NHW 9	9.5	3/8	17.0	1Y/B	13.7	-	50	150

Thermoplastic

Feature

i-bar hose was developed to minimize kink. Easy to build compact lay-line.

High abrasion resistance of outer cover reduced by 1/5 to 1/3 compared to current product and guarantee long service life.

NN173 hose series are implemented polyester elastomer for outer cover and inner tube.

It enhance flexibility and cold resistance up to -55 °C

Construction

Inner Tube : Polyester elastomer

Reinforcement : Polyester yarn braid

Outer Cover : Polyester elastomer

Application

Hydraulic oil

Operating Temperature Range

NV105 : -40 ~ 100 °C (up ~ 60 °C when using water)

-40 ~ 212 °F (up ~ 140 °F when using water)

NV210 : -40 ~ 100 °C (up ~ 60 °C when using water)

-40 ~ 212 °F (up ~ 140 °F when using water)

NN173 : -55 ~ 100 °C (up ~ 60 °C when using water)

-67 ~ 212 °F (up ~ 140 °F when using water)

NV105

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NV105 6	6.3	1/4	11.0	1Y/B	10.5	42.0	40	70
NV105 9	9.5	3/8	14.5	1Y/B	10.5	42.0	50	110
NV105 12	12.7	1/2	18.3	1Y/B	10.5	42.0	60	180

NV210

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NV210 6	6.3	1/4	13.4	2Y/B	20.6	82.4	50	130
NV210 9	9.5	3/8	17.6	2Y/B	20.6	82.4	65	200
NV210 12	12.7	1/2	21.4	2Y/B	20.6	82.4	80	250

NN173

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
NN173-04	6.3	1/4	12.6	1Y/B	19.0	76.0	30	110
NN173-06	9.5	3/8	16.0	1Y/B	15.5	62.0	50	140
NN173-08	12.7	1/2	19.8	1Y/B	13.5	54.0	60	200

Water and hot water (not available for use with oil)

Feature

Only insert a hose into a fitting and then you can use the assembly.
No need for band tightening or clamping. Usable with up to 120°C hot water.

Construction

Inner Tube : Heat-resistant synthetic rubber
Reinforcement : Special synthetic fiber
Outer Cover : Heat-resistant synthetic rubber

Application

Water and hot water (not available for use with oil)

Operating Temperature Range

Max 120°C Max 248°F

HTW10 water and hot water								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
HTW10-04	6.3	1/4	12.7	1Y/B	1.0	4.0	76	120
HTW10-06	9.5	3/8	15.9	1Y/B	1.0	4.0	76	150
HTW10-08	12.7	1/2	19.5	1Y/B	1.0	4.0	127	225

Heat resistance Reusable Fitting / High Temperature steam

Feature

Superior high pressure and high temperature resistance.
Operating limit temperature is up to 210°C continuously and 250°C intermittently superior tube material for resistance to damp.

Construction

Inner Tube : Heat resistance synthetic rubber
Reinforcement : Wire braid and Yam braid
Outer Cover : Heat resistance synthetic rubber

Application

High temperature steam

Operating Temperature Range

Up ~ 210°C continuously and 250°C intermittently.
Do not use for other fluid except steam.
Up ~ 410°F continuously and 482°F intermittently.
Do not use for other fluid except steam.

UP STEAM for high temp steam								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
USTEMN 12	12.7	1/2	26.5	1W/B × 1Y/B	1.8	220	650	120
USTEMT 19	19.0	3/4	33.0	1W/B × 1Y/B	1.8	270	950	150
USTEMN 25	25.4	1	41.5	1W/B × 1Y/B	1.8	340	1,300	120
USTEMN 32	31.8	1 1/4	48.0	1W/B × 1Y/B	1.8	400	1,500	150
USTEMN 38	38.1	1 1/2	54.5	1W/B × 1Y/B	1.8	450	1,800	120
USTEMN 50	50.8	2	67.0	1W/B × 1Y/B	1.8	550	2,250	150

Paint solvent (hydrocarbon, ester, ketone, alcohol and ether)

Feature

Implement nylon inner tube resistant to solvent used for paint material.
Implement vinyl chloride outer cover resistant to abrasion.
Conductive type to prevent static electricity caused by flammable solvent.
1000 hours endurance test passed.

Construction

Inner Tube : Nylon
Reinforcement : High-tensile steel wire
Outer Cover : vinyl chloride

Application

Paint solvent (hydrocarbon, ester, ketene, alcohol and ether)

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

N191 for paint solvent								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
N191 5	4.8	3/16	10.0	1W/B	20.6	68.5	30	120
N191 6	6.1	1/4	11.4	1W/B	20.6	68.5	35	140
N191 9	9.5	3/8	15.0	1W/B	20.6	68.5	50	230

HWBF (High Water Base Fluid), Water oil Emulsion type, Soluble type and hydraulic oil

Feature

Pricking processes for easy permeation of water vapor 800,000 cycles
impulse test is cleared exceeding JIS specification Special fitting is available.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Wire braid
Outer Cover : Wire spiral
Weather-resistant synthetic rubber

Application

HWBF, Water oil Emulsion type, Soluble type and hydraulic oil

Operating Temperature Range

5 ~ 60°C
-40 ~ 100°C for hydraulic oil
5 ~ 140°F
-40 ~ 212°F for hydraulic oil

HWBF : High water base fluid.

Fitting standard material is mild steel plated black or Nickel Stainless steel material is available.

UP STEAM for high temp steam								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
G210 6	6.4	1/4	17.5	2W/B + 1Y/B	20.5	102.5	100	500
G210 9	9.5	3/8	21.5	2W/B + 1Y/B	20.5	102.5	130	700
G210 12	12.7	1/2	28.0	1W/B + 4W/S + 1Y/B	20.5	102.5	160	1,250
G210 19	19.0	3/4	35.0	1W/B + 4W/S + 1Y/B	20.5	102.5	250	1,750
G210 25	25.4	1	41.0	1W/B + 4W/S + 1Y/B	20.5	102.5	310	2,250
G210 32	31.8	1-1/4	48.0	1W/B + 4W/S + 1Y/B	20.5	102.5	350	3,000
G210 38	38.1	1-1/2	58.0	1W/B + 6W/S + 1Y/B	20.5	102.5	450	4,700
G210 50	50.8	2	73.5	1W/B + 6W/S + 1Y/B	20.5	102.5	580	7,400

Phosphate esters hydraulic oil (not available for use with hydraulic oil)

Feature

Used for Phosphate esters hydraulic oil as fire resistant hose.
We recommend G210 hose series for HWBF Glass wool wearied on P210 hose is recommended when used under high ambient temperature, 100 °C more.

Construction

Inner Tube : Phosphate esters hydraulic synthetic rubber
Reinforcement : Wire braid, Wire spiral
Outer Cover : Weather-resistant synthetic rubber

Application

Phosphate esters hydraulic oil

Operating Temperature Range

-30 ~ 100 °C (Do not use hydraulic oil)
-22 ~ 212 °F (Do not use hydraulic oil)

P210 for phosphate esters								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
P210 6	6.4	1/4	14.8	2W/B	20.5	102.5	100	350
P210 9	9.5	3/8	18.8	2W/B	20.5	102.5	130	500
P210 12	12.7	1/2	22.0	2W/B	20.5	102.5	160	700
P210 19	19.0	3/4	33.5	4W/S	20.5	102.5	250	1,600
P210 25	25.4	1	40.0	4W/S	20.5	102.5	310	2,000
P210 32	31.8	1 1/4	50.0	6W/S	20.5	102.5	350	3,900
P210 38	38.1	1 1/2	57.0	6W/S	20.5	102.5	450	4,100
P210 50	50.8	2	73.0	6W/S	20.5	102.5	580	7,500

Rolling lubricant oil (Roll Coolant)

Feature

The cover rubber is made of oil-resistance material as well. Even the outside of the hose is poured by the rolling lubricant oil, the rubber material is sufficiently resistant for regular use.
The hose is very hard to be smashed. At the same time it has a quality of being flexible. Consequently the hose is found convenient in a narrow space.

Construction

Inner Tube : oil-resistant synthetic rubber
Reinforcement : wire braid Wire spiral
Outer Cover : oil resistant, oil-resistant synthetic rubber

Application

Rolling lubricant oil (Roll Coolant system)

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

RC205 for roll coolant								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
RC205 6	6.3	1/4	13.5	2W/B	20.5	82.0	70	300
RC205 9	9.5	3/8	16.7	2W/B	20.5	82.0	90	390
RC205 12	12.7	1/2	20.2	2W/B	20.5	82.0	110	520
RC205 19	19.0	3/4	28.8	2W/B	20.5	82.0	170	970
RC205 25	25.4	1	36.0	4W/S	20.5	82.0	220	1,450
RC205 32	31.8	1 1/4	44.4	4W/S	20.5	82.0	280	2,200
RC205 38	38.1	1 1/2	51.5	4W/S	20.5	82.0	330	2,870
RC205 50	50.8	2	66.0	4W/S	20.5	82.0	430	4,700

RC35N for roll coolant								
Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
RC35N 50	50.8	2	61.1	2W/B	3.5	14.0	300	2,060
RC35N 65	63.5	2 1/2	76.0	2W/B	3.5	14.0	660	2,780
RC35N 75	76.2	3	95.0	3W/B	3.5	14.0	800	5,400

Water and cement milk

Feature

This hose is exclusively to transfer of water and cement milk for soil improvement, strength rock mass, dam and tunnel construction. Improved abrasion resistance to prevent rubbing makes longer product-life cycle.

Construction

Inner Tube : Abrasion resistance and water proof synthetic rubber

Reinforcement : Wire braid

Outer Cover : Abrasion resistance synthetic rubber

Application

Water and cement milk

Operating Temperature Range

5 ~ 60 °C (Do not use hydraulic oil)

41 ~ 140 °F (Do not use hydraulic oil)

GT70 for water and grout

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)					
GT70 12	12.7	1/2	19.9	1W/B	7.0	80	330
GT70 25	25.4	1	33.2	1W/B	7.0	150	690
GT70 32	31.8	1 1/4	41.0	1W/B	7.0	190	960
GT70 38	38.1	1 1/2	48.0	1W/B	7.0	230	1,160
GT70 50	50.8	2	63.0	2W/B	7.0	300	2,020

GT140 for water and grout

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)					
GT140 19	19.0	3/4	27.2	1W/B	14.0	140	640
GT140 25	25.4	1	34.8	2W/B	14.0	190	1,100
GT140 32	31.8	1 1/4	41.3	2W/B	14.0	240	1,340
GT140 38	38.1	1 1/2	47.8	2W/B	14.0	290	1,470
GT140 50	50.8	2	61.1	2W/B	14.0	370	2,060

GT205 for water and grout

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)					
GT205 12	12.7	1/2	20.8	1W/B	20.5	90	400
GT205 19	19.0	3/4	28.0	2W/B	20.5	140	820
GT205 25	25.4	1	34.8	2W/B	20.5	190	1,100
GT205 32	31.8	1 1/4	41.3	2W/B	20.5	240	1,340
GT205 38	38.1	1 1/2	48.8	2W/B	20.5	330	1,640

GT410 for water and grout

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)					
GT410 19	19.0	3/4	29.2	2W/B	41.0	160	1,020



GENERAL TERMS AND CONDITIONS OF SALE

1. General Provisions.

- (a) The terms and conditions set out below (the "General Terms and Conditions of Sale") shall form part of all the agreements executed between the **Seller** and the **Buyer** for the supply of the Seller products (the "**Products**").
- (b) The General Terms and Conditions of Sale shall apply to all transaction executed between the Seller and the Buyer without any need of express reference thereto or agreement thereon at the conclusion of such transaction. Any dissenting terms and conditions shall only apply if confirmed in writing by the Seller.
- (c) The Seller reserves the right to change, integrate or vary the General Terms and Conditions of Sale, by including such variations in the quotations or in any other written correspondence sent to the Buyer.

2. Offers and Orders.

- (a) The Seller's offers shall not be binding, in particular with reference to quantities, price and delivery time.
- (b) Orders placed by the Buyer shall not be regarded as accepted before these have been confirmed by the Seller in writing. If the Seller should fail to confirm an agreement in writing which it has entered into verbally, the Seller's invoice or the execution of the order by the Seller shall be regarded as confirmation.
- (c) On the orders with rateable amount lower than € 200, received by the Seller, is added an increase of € 50.
- (d) The costs of package correspond to 0,5% of the rateable amount of the goods indicated on the invoice.
- (e) Orders and/or amendments of orders placed verbally or by telephone, must be confirmed in writing by the Buyer. Otherwise the Seller does not accept any responsibility for errors or consequent misunderstandings.

3. Prices and Terms of Payment.

- (a) The prices of the Products shall exclude any statutory VAT which shall be payable at the date of delivery or pursuant specific provisions included in the invoice. Unless otherwise stated all prices quoted in any document or correspondence issued by the Seller do not include packaging and transport costs, nor the ancillary expenses as indicated in the Seller's sales catalogue in force at the moment of the conclusion of the contract.
- (b) The payment of the Net Invoice Price shall be paid free of any reduction by the Buyer at least within 30 (thirty) days from the date of the receipt of the invoice by the Buyer.
- (c) In addition to other remedies permitted under the applicable law and these General Terms and Conditions of Sale, the Seller reserves the right to recover default interest on delayed payments starting from the due date, calculated at the official reference rate of the European Central Bank increased by 7 (seven) basis points.
- (d) If the Buyer fails to take payments in the time and manner specified by the Seller or the Buyer business shall be operated beyond the ordinary course of business which shall include, without limitation, when seizure or protest has been made, payments shall be delayed or insolvency proceedings shall have been petitioned or opened, the Seller shall have the right to suspend or cancel, at its sole discretion, further delivery and to declare all its claims arising from the business relationship as immediately payable. Moreover the Seller may in such event request for anticipation on the payments or a warranty deposit.
- (e) The Buyer shall have no right to make any compensation, retention or reduction unless the counterclaims have been conclusively determined by the court.

4. Terms of Delivery.

- (a) Unless otherwise agreed, the delivery of the products shall be EXW (Incoterms 2000) F.B. S.r.l. plants.
- (b) The Buyer shall provide the means of transport and shall

- be responsible for its availability on time. The Seller shall immediately be informed of any delays. Any costs arising thereof shall be at the expense of the Buyer.
- (c) Unless otherwise expressly agreed in writing any indicated time of delivery shall be nonbinding for the Seller. Unless different agreement between the parties, the approximate term for the delivery is the one specified in the confirmation of order.
- (d) The Seller reserves the right to reasonably delivery in instalments.
- (e) Any liability to supply as a result of force majeure or other unforeseen incidents outside the Seller responsibility including, without limitation, strike, lock out, acts of public authorities, subsequent cease of export or import opportunities shall, for their duration and in accordance with their impact, relieve the Seller from the obligation to comply with any agreed time for delivery.
- (f) The Seller is not obliged to accept the Products returns, unless otherwise agreed in writing. Any costs arising thereof shall be at the expense of the Buyer.

5. Duty to Inspection and Acceptance of Products.

- (a) Upon taking possession of the Products, the Buyer shall immediately:
- (i) check quantities and packaging of the Products and record any objections on the delivery note; and
 - (ii) conduct a conformity check on the Products compared to the data indicated in the confirmation of order and record any objections on the delivery note.
- (b) In case of a notice of defect the Buyer shall comply with the following procedures and deadline:
- (i) the notification shall be made by no later than 3 (three) working days from the taking possession of the Products by the Buyer. In the event of an objection to a defect which, despite a first inspection has remained undiscovered, the objection must be raised within the early of the expiry of the working day on which the defect has been discovered but in any event by no later than 2 (two) weeks after take over of the Products;
 - (ii) the detailed notice shall be delivered to the Seller within the aforementioned deadlines in writing by fax or email. Any notice by telephone conversation shall not be accepted;
 - (iii) the notice must clearly specify the kind of the alleged defect;
 - (iv) the Buyer agrees to make available for inspection the objected Products; such inspection shall be done by the Seller or by any expert designated by the Seller.
- (c) No objections with regard to the quantities, quality, type, and packaging of the Products shall be possible unless a note has been placed on the delivery note in accordance with the above mentioned procedure.
- (d) Any Product to which objection shall not have been raised in accordance with the procedures and deadlines set out above shall be regarded as approved and accepted by the Buyer.

6. Terms of Warranty.

- (a) The Seller hereby represents and warrants that the Products shall be free from defect and shall comply with the technical specifications forwarded by the Seller
- (b) The Products are guaranteed for a period of 12 (twelve) months from the date of the shipment of the Products themselves for ordinary operations in accordance with specifications forwarded by the Seller.
- (c) Such warranty only includes the substitution or repair of the defective Products with the exclusion of any other and different obligation. The Product will be repaired by the seller at its own office, its secondary office or its own authorised reseller. The Buyer will have to provide with the sending at his own expenses the defective Product to the office, secondary office, or authorised reseller as indicated by the Seller. The Seller will

- send to the Buyer the new Product or the repaired Product, bearing therefore the costs of the shipment.
- (d) The Seller doesn't accept claims for goods tampered or used improperly.

7. Limitation of Liability.

- (a) Unless in case of justified objection which shall have been raised in accordance with the procedure and deadlines set forth in paragraph 5 above, the Buyer shall not be entitled to any further rights or remedies. In particular, the Seller shall not be responsible for any compensation based on breach of contract or default, for any direct or indirect damage or loss of profit due to the use, the inability to use, or the incorporation of the Products in other products, unless under warranties granted in paragraph 6 or in cases of wilful misconduct or gross negligence on the Seller's part.
- (b) The Seller shall do its best endeavour to deliver the Products within the time agreed (if any), but it shall not be liable for any loss or damage of any kind whatsoever caused directly or indirectly by any delay in the completion of the contract or delivery of the Products.
- (c) Catalogues, price lists or other advertising matters of the seller are only an indication of the type of Products and no prices or other information contained herein shall be binding for the Seller. The Seller does not accept any responsibility for errors or omissions contained in its price lists or promotional matters.
- (d) The dimensions, which must be respected peremptorily, must be written from the buyer on the orders.

8. Retention of Title.

- (a) The Product supplied shall remain in the property of the Seller until the date of the full payment by the Buyer of the entire price of the Products and of all amounts due to the Seller. Until that time the Buyer shall hold the Products as the Seller's fiduciary agent and shall keep the Product properly stored, protected and insured.
- (b) If in the Country of the Buyer's domicile for the validity of the retention of title for the benefit of the Seller it is necessary to fulfil some administrative or legal formalities as, without limitation, to file the Products with the public registers or to affix particular seals on them, the Buyer shall cooperate with the Seller and shall do its best effort for carry out all the necessary actions in order to obtain a valid retention of title right on the Products for the benefit of the seller.
- (c) The Buyer shall have the right to dispose of the Products delivered by the Seller or to process them in the ordinary course of the business. In such a case, the proceeds came from the sale or from the process of the Products shall be transferred to the Seller up to the concurrence of the full price due by the Buyer to the Seller for the supply of Products.
- (d) The right to the Buyer to dispose of Products or to process them shall cease in the cases referred to in paragraph 3 (d) above. In such a case, the Buyer must place the Products at the disposal of the Seller who shall have the right to enter upon the Buyer's premises for the purpose of obtain the ownership of the Products.
- (e) In the event of any third party action against the Seller's Products delivered under retention of title, the Buyer shall notify such party of the Seller's property and shall immediately inform the Seller about such action. The Buyer shall bear the costs of any intervention.

9. Data Protection Law.

- (a) The personal data of the Buyer shall be processed in accordance with the Italian data protection law (Legislative Decree 196/2003). The Seller inform the Buyer that the Seller is the data controller and that the Buyer's personal data shall be collected and processed for the only purpose of the performance of this agreement. Pursuant article 7 of the Italian

Legislative Decree 196/2003, the Buyer has the right to ask to the Seller the updating, amendment, integration, writing off and transformation in anonymous form of its data.

10. Applicable Law.

- (a) In case of the Buyer is a subject having Italian nationality, the present General Terms and Conditions of Sale and all the agreements executed between the Seller and the Buyer shall be governed by Italian laws.
- (b) On the contrary, in case of the Buyer is a subject having a nationality different from the Italian one, the present General Terms and Conditions of Sale and all the agreements executed between the Seller and the Buyer shall be governed by the United Nations Convention of Vienna of 1980 on Contracts for the International Sale of Goods.

11. Jurisdiction.

- (a) Any dispute arising between the parties in connection with the interpretation, validity or performance of the present General Terms and Conditions of Sale and of all the relevant agreements, shall be of the exclusive competence of the referred to the Court of Bologna.
- (b) It is agreed between parties that the Seller, at its own discretion, may have the faculty to waive the exclusive jurisdiction set forth in paragraph (a) to bring an action against the Buyer in its domicile and before any court of competent jurisdiction.

12. Final Provisions.

- (a) The total or partial invalidity of any provision of the present General Terms and Conditions of Sale shall not affect the validity of the other provisions.
- (b) The present General Terms and Conditions of Sale have been drafted in both Italian and English languages. In case of problems of interpretation the Italian version shall prevail.

F.B. Hydraulic Srl

CONDIZIONI GENERALI DI VENDITA

1. Disposizioni Generali.

(a) I termini e le condizioni qui di seguito indicati (le "Condizioni Generali di Vendita") formano parte integrante dei contratti conclusi tra il **Venditore** e l'**Acquirente** per la fornitura dei prodotti del Venditore (i "**Prodotti**").

(b) Le Condizioni Generali di Vendita si applicano a tutte le transazioni concluse tra il Venditore e l'Acquirente senza la necessità che vi sia un espresso richiamo alle stesse o uno specifico accordo in tal senso alla conclusione di ogni singola transazione. Qualsiasi condizione o termine differente trova applicazione soltanto se confermato per iscritto da parte del Venditore.

(c) Il Venditore si riserva il diritto di modificare, integrare o variare le Condizioni Generali di Vendita, allegando tali variazioni alle offerte ovvero a qualsivoglia corrispondenza inviata per iscritto all'Acquirente.

2. Offerte e Ordini.

(a) Le offerte del Venditore non sono da considerarsi vincolanti, in particolare con riferimento alle quantità, ai prezzi e ai termini di consegna.

(b) Gli ordini effettuati dall'Acquirente non s'intendono accettati finché non siano stati confermati per iscritto da parte del Venditore. Nel caso in cui il Venditore non provveda alla conferma per iscritto di un ordine negoziato verbalmente, l'emissione della fattura da parte del Venditore oppure l'esecuzione dell'ordine da parte del Venditore sarà considerata quale conferma.

(c) Agli ordini ricevuti dal Venditore con valore imponibile inferiore ad € 200,00 viene praticato un aumento forfetario di € 50.

(d) I costi di imballo corrispondono allo 0,5% del valore imponibile delle merci indicato in fattura.

(e) Gli ordini e/o le modifiche di ordini effettuati verbalmente o telefonicamente devono essere confermati per iscritto da parte dell'Acquirente. In caso contrario il Venditore non si assume alcuna responsabilità con riguardo a eventuali errori o possibili fraintendimenti.

3. Prezzi e Termini di Pagamento.

(a) I Prezzi dei Prodotti non sono comprensivi di IVA, che deve essere corrisposta al momento della consegna o in conformità alle specifiche disposizioni indicate nella fattura. A meno che non sia diversamente precisato, tutti i prezzi indicati in qualsivoglia documento o corrispondenza emessi dal Venditore si intendono non comprensivi dei costi di imballaggio e di trasporto, né degli oneri accessori indicati nel catalogo del Venditore in vigore al momento della conclusione del contratto.

(b) Il pagamento del Prezzo Netto indicato in fattura deve essere effettuato privo di qualsivoglia riduzione al più tardi entro 30 (trenta) giorni dalla data di ricevimento della fattura da parte dell'Acquirente.

(c) In aggiunta agli altri rimedi consentiti dalla legge applicabile o dalle presenti Condizioni Generali di Vendita, si riserva il diritto di applicare interessi di mora sui ritardati pagamenti a decorrere dalla data in cui sia maturato il diritto al pagamento, calcolati al tasso ufficiale di riferimento della Banca Centrale Europea aumentato di 7 (sette) punti.

(d) Nel caso in cui l'Acquirente non effettui il pagamento nei termini e secondo le modalità indicate dal Venditore o nel caso in cui l'attività dell'acquirente sia condotta non in conformità al corso ordinario degli affari, con ciò intendendosi, senza alcuna limitazione, l'emissione di atti di sequestro o di protesti, o quando i pagamenti siano stati ritardati o siano state richieste o promosse procedure concorsuali, il Venditore ha il diritto, a propria discrezione, di sospendere o di cancellare ulteriori consegne e di dichiarare qualsiasi pretesa derivante dal rapporto d'affari come immediatamente esigibile.

Inoltre il Venditore può in tali casi richiedere anticipi sui pagamenti o un deposito in garanzia.

(e) L'Acquirente non ha alcun diritto di effettuare alcuna compensazione, trattenuta o riduzione tranne che nel caso in cui la propria domanda in tal senso sia stata definitivamente e giudizialmente accolta.

4. Termini di Consegna.

(a) Se non diversamente concordato, la consegna dei Prodotti si intende pattuita EXW (Incoterms 2000) stabilimento F.B. Srl

(b) L'Acquirente provvede al mezzo di trasporto ed è responsabile per la sua disponibilità entro il termine pattuito. Il Venditore deve essere immediatamente informato di ogni ritardo. Qualsiasi costo da ciò derivante è a carico dell'Acquirente.

(c) Se non diversamente concordato per iscritto, qualsiasi termine di consegna indicato non è vincolante per il Venditore. Salvo diverso accordo tra le parti, il termine di consegna indicativo è quello precisato nella conferma d'ordine.

(d) Il Venditore si riserva il diritto di effettuare ragionevolmente consegne parziali.

(e) Qualsiasi responsabilità per la consegna derivante da forza maggiore o da altri eventi imprevedibili non imputabili al Venditore, ivi inclusi, senza alcuna limitazione, scioperi, serrate, disposizioni della pubblica amministrazione, successivi blocchi delle possibilità di esportazione o importazione, in considerazione della loro durata e della loro portata, liberano il Venditore dall'obbligazione di rispettare qualsiasi termine di consegna pattuito.

(f) Il Venditore non è obbligato ad accettare resi dei prodotti, salvo che sia stato espressamente pattuito per iscritto. Qualsiasi costo a tal fine sostenuto è a carico dell'Acquirente.

5. Doveri di Ispezione e Accettazione dei Prodotti.

(a) Al momento della presa in consegna dei Prodotti, l'Acquirente dovrà immediatamente:

(I) verificare le quantità e l'imballaggio dei Prodotti e registrare qualsiasi obiezione nella nota di consegna;

(II) effettuare un controllo di conformità dei Prodotti rispetto a quanto indicato nella conferma d'ordine e registrare qualsiasi difformità nella nota di consegna.

(b) Nel caso di denuncia di vizi l'Acquirente deve rispettare le procedure e i termini che seguono:

(I) la comunicazione deve essere effettuata entro non più di 3 (tre) giorni lavorativi a partire dalla presa in consegna dei Prodotti da parte dell'Acquirente. Nel caso in cui la contestazione sia relativa ad un vizio che, nonostante l'ispezione iniziale, sia rimasto celato, la contestazione deve essere effettuata al più presto entro la fine del giorno lavorativo in cui il vizio sia stato scoperto e, in ogni caso, non più tardi di 2 (due) settimane dalla presa in consegna dei Prodotti;

(II) la comunicazione dettagliata deve essere inoltrata al Venditore entro i termini sopra indicati a mezzo fax. Qualsiasi comunicazione effettuata telefonicamente non viene accettata;

(III) la comunicazione deve chiaramente specificare la tipologia dei vizi addotti;

(IV) l'Acquirente acconsente a mettere a disposizione i Prodotti contestati perché vengano ispezionati; tale ispezione verrà effettuata dal Venditore o da un perito nominato dal Venditore.

(c) Nessuna contestazione con riferimento alle quantità, alla qualità, alla tipologia e all'imballaggio dei Prodotti potrà essere effettuata salvo che attraverso la comunicazione apposta alla nota di consegna, conformemente alla procedura sopra indicata.

(d) Qualsiasi Prodotto per il quale non sia stata sollevata alcuna contestazione conformemente alle procedure e ai termini qui sopra indicati viene considerato approvato e accettato dall'Acquirente.

6. Termini di Garanzia.

(a) Il Venditore garantisce che i Prodotti sono esenti da vizi e conformi alle specifiche tecniche dichiarate dal Venditore.

(b) I Prodotti sono garantiti per un periodo di 12(dodici) mesi dalla data di spedizione dei Prodotti stessi per un funzionamento ordinario secondo le specifiche dichiarate dal Venditore.

(c) Tale garanzia comprende unicamente la sostituzione o riparazione dei Prodotti difettosi con esclusione di ogni ulteriore e diversa obbligazione. Il Prodotto verrà riparato dal Venditore presso la propria sede, la propria filiale o il proprio

rivenditore autorizzato. L'Acquirente dovrà provvedere ad inviare a proprie spese il Prodotto difettoso presso la sede, filiale o rivenditore autorizzato indicatogli dal Venditore. Il Venditore invierà all'Acquirente il nuovo Prodotto o il Prodotto riparato, sostenendo i costi della spedizione.

(d) Il Venditore non accetta reclami per materiale manomesso o utilizzato in modo improprio.

7. Limitazione della Responsabilità.

(a) Tranne che nei casi di giustificata contestazione sollevati conformemente a quanto previsto nel precedente paragrafo 5, all'Acquirente non è riconosciuto alcun ulteriore diritto o rimedio. In particolare, il Venditore non è responsabile per alcun indennizzo richiesto per violazione o inadempimento contrattuale, per qualsiasi danno diretto o perdita di profitto sopportato dall'Acquirente in conseguenza dell'uso, del mancato uso, o dell'installazione dei Prodotti in altri prodotti, ad eccezione dei casi coperti da garanzia indicati nel paragrafo 6 o in caso di dolo o colpa grave da parte del Venditore.

(b) Il Venditore farà tutto quanto in suo potere per consegnare i Prodotti entro i termini eventualmente concordati, ma in nessun caso potrà essere chiamato a rispondere dei danni direttamente o indirettamente causati dalla ritardata esecuzione di un contratto o dalla ritardata consegna dei Prodotti.

(c) I cataloghi, i listini prezzi o altro materiale promozionale del Venditore costituiscono soltanto una indicazione della tipologia dei Prodotti e dei prezzi e le indicazioni ivi indicate non sono vincolanti per il Venditore. Il Venditore non si assume alcuna responsabilità per errori od omissioni contenuti nei propri listini prezzi o nel proprio materiale promozionale.

(d) Le quote dimensionali da rispettarsi tassativamente devono essere esplicitamente indicate per iscritto dall'Acquirente sugli ordini.

8. Riserva di Proprietà.

(a) I Prodotti forniti rimangono di piena proprietà del Venditore fino alla data in cui l'Acquirente non abbia provveduto al pagamento dell'intero prezzo degli stessi e di tutte le somme dovute al Venditore. Fino a tale momento l'Acquirente conserva i prodotti in qualità di possessore fiduciario del Venditore e deve custodire i Prodotti adeguatamente immagazzinati, protetti e assicurati.

(b) Nel caso in cui nel paese in cui l'Acquirente ha il proprio domicilio per la validità della riserva di proprietà a favore del Venditore sia necessario l'esplicitamento di formalità amministrative o legali quali, senza alcuna limitazione, la registrazione dei Prodotti in pubblici registri, ovvero l'apposizione sugli stessi di appositi sigilli, l'Acquirente si impegna fin d'ora a collaborare con il Venditore e a porre in essere tutti gli atti necessari al fine di far ottenere a quest'ultimo un valido diritto con riferimento alla riserva di proprietà.

(c) L'Acquirente ha il diritto di disporre dei Prodotti fomitigli o di utilizzare gli stessi nelle lavorazioni nel corso dello svolgimento ordinario della sua attività. In tal caso, i proventi derivanti dalla vendita o dalla lavorazione dei Prodotti verranno trasferiti al Venditore fino alla concorrenza del prezzo dovuto dall'Acquirente al Venditore per la fornitura dei Prodotti.

(d) Il diritto dell'Acquirente di disporre dei Prodotti o di utilizzare gli stessi nel corso dello svolgimento ordinario della sua attività verrà meno nei casi indicati nel paragrafo 3 sopra indicato. In tal caso l'Acquirente dovrà mettere i Prodotti a disposizione del Venditore, che potrà accedere alla sede dell'Acquirente per ottenere il possesso degli stessi.

(e) Nell'ipotesi di azioni esercitate da terzi nei confronti dei Prodotti del Venditore forniti e assoggettati alla riserva di proprietà, l'Acquirente dovrà comunicare ai terzi il fatto che gli stessi sono di proprietà del Venditore e dovrà informare immediatamente il Venditore di tale azione. L'Acquirente sosterrà tutti i costi relativi a ciascun intervento.

9. Trattamento dei Dati Personali.

(a) I dati personali dell'Acquirente saranno trattati secondo quanto disposto dalla legge italiana in materia di trattamento dei dati personali (Decreto Legislativo 196/2003). Il Venditore informa l'Acquirente che il Venditore è il titolare del trattamento e che i dati personali dell'Acquirente vengono raccolti e trattati esclusivamente per l'esecuzione del presente accordo. Ai sensi

dell'articolo 7 del D. Lgs. 196/2003, l'Acquirente ha il diritto di richiedere al Venditore l'aggiornamento, la rettifica, l'integrazione, la cancellazione e la trasformazione in forma anonima dei propri dati.

10. Legge Applicabile.

(a) Qualora l'Acquirente sia un soggetto di diritto Italiano, le presenti Condizioni Generali di Vendita e tutti i contratti stipulati da quest'ultimo con il Venditore s'intendono regolati dalla legge Italiana.

(b) Qualora invece l'Acquirente sia un soggetto di nazionalità diversa da quella italiana, le presenti Condizioni Generali di Vendita e tutti i contratti stipulati da quest'ultimo con il Venditore s'intendono regolati dalla Convenzione di Vienna del 1980 relativa ai Contratti di Vendita Internazionale di Beni Mobili.

11. Foro Competente.

(a) Qualsiasi controversia insorta tra le parti a seguito dell'interpretazione, validità o esecuzione delle presenti Condizioni Generali di Vendita e dei relativi contratti stipulati sarà devoluta alla competenza esclusiva del Tribunale di Bologna.

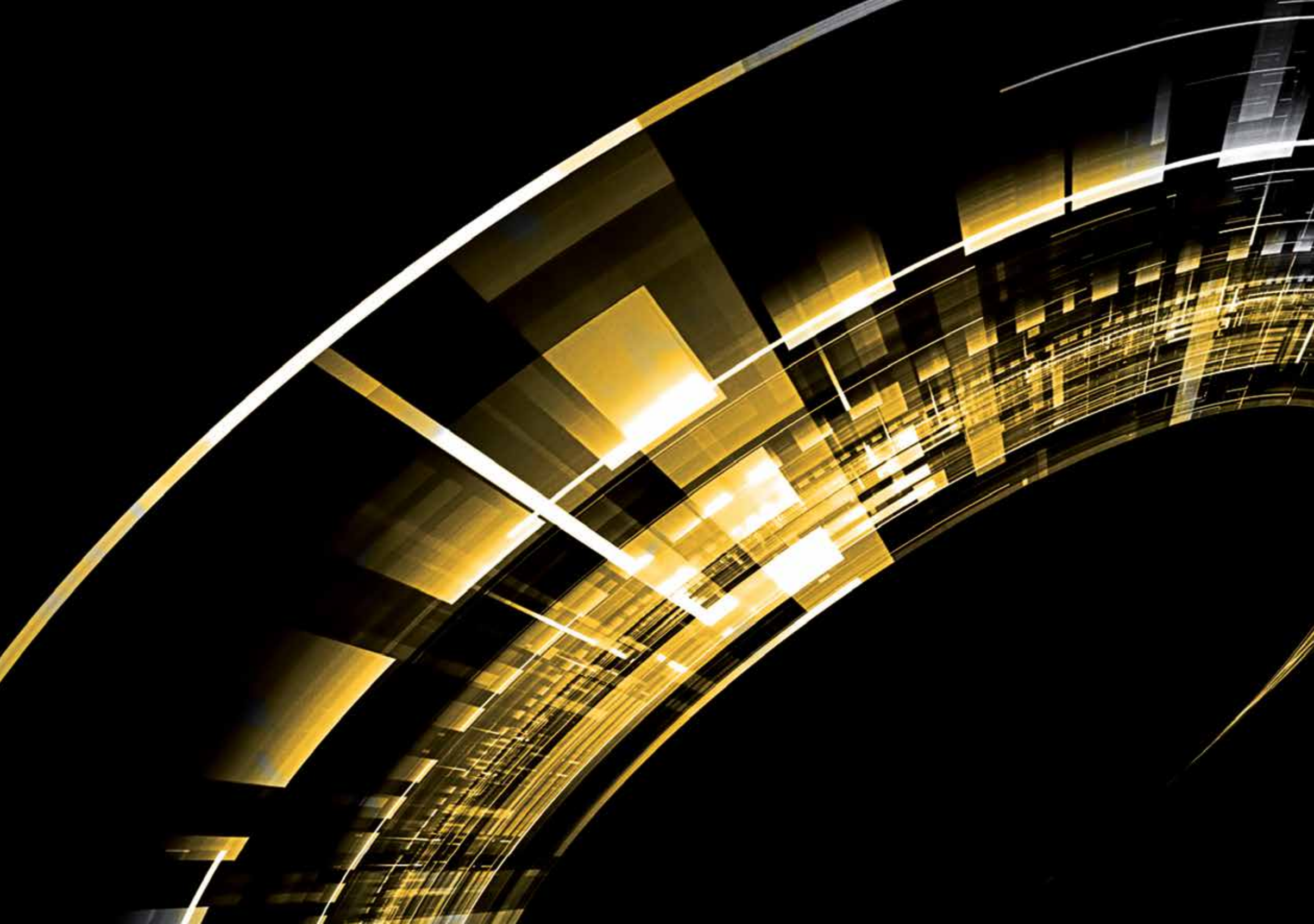
(b) Resta inteso tra le parti che soltanto il Venditore, a propria discrezione, avrà la facoltà di rinunciare alla competenza del foro esclusivo di cui al precedente paragrafo (a) per agire in giudizio nei confronti dell'Acquirente, al suo domicilio e presso il Tribunale ivi competente.

12. Disposizioni Finali.

(a) L'invalidità in tutto o in parte di singole disposizioni delle presenti Condizioni Generali di Vendita non inficia la validità delle restanti previsioni.

(b) Le presenti Condizioni Generali di vendita sono redatte in duplice lingua italiana e inglese. In caso sorgessero dubbi interpretativi prevarrà la versione in italiano.

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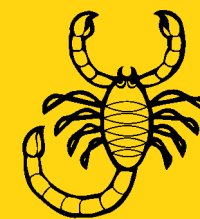
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