

Hose couplings and accessories

MOLOS p-info

Technical data and Planning information

MOLOS
code

MOLOS
switch

MOLOS
lock

MOLOS
connect

Index	Page
Notes	2
Storz couplings	3 - 11
Road tanker couplings	12 - 17
Clamp rings	18
Conveying pipes conveying hoses	19 - 20
Pipe thread	21
Flanges	22
Thread and flange sealing rings	23
Stainless steel	24
Elastomer	25 - 27

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Planning information

Notes

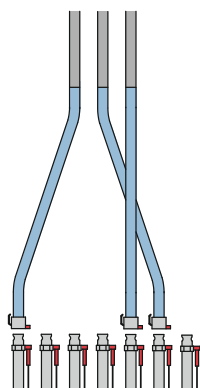
This documentation is intended for the planning of hose couplings and hose coupling stations (distribution stations).

MOLLET produces exact fitted coupling systems of any kind with limit switch or RFID coding for the conveying of different liquids or bulk solids in hoses of various manufactures by using pressure or vacuum for conveying.

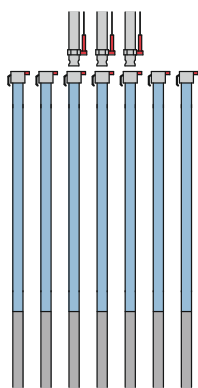
Pipes and conveying hoses included in this documentation are just for information and not part of the product portfolio of MOLLET. The only exception is conveying hoses mentioned on page 34.

The technical data of the elastomer refer to the different sealing rings and the hoses of the pinch valves. Both, the hose couplings and pinch valves are used for the conveying of material.

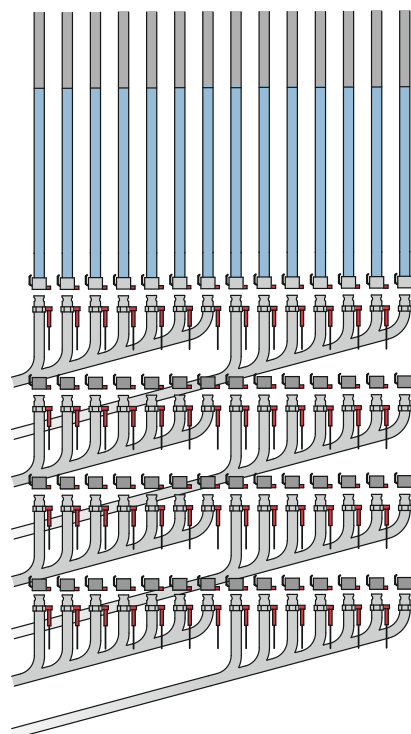
**OneSide-Hose
coupling stations HS**



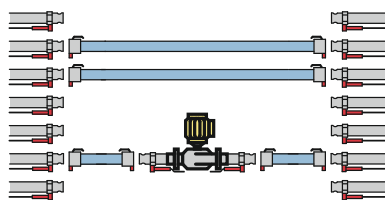
**OneSide-Hose
coupling stations US**



**OneSide-Hose coupling stations
HS pendulous hoses**



**TwoSide-Hose
coupling stations LS**



Disclaimer

The information and values included in this planning information have been determined and compiled with greatest care. The data has to be used exclusively for information and support for the planning of facilities.

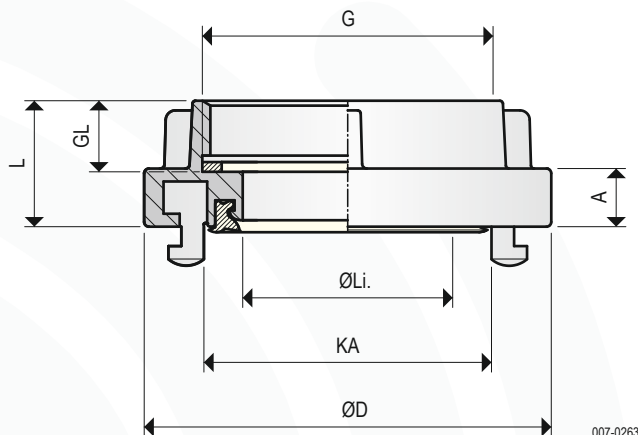
The complete content is expressly not part of the technical product documentation and is not considered a basis for any kind of rights.

In particular, the MOLLET Füllstandtechnik GmbH is not liable for personal injury and damage to property caused by failures or omission in this planning information.

Beyond this, we shall also reserve the right to make changes or substitutions without prior announcement.

Technical data

Fixed couplings with female thread

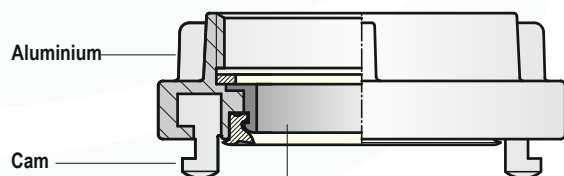


Technical data

Ambient temperature	-25 °C ... +120 °C
Pressure	-0.9 bar ... 10 bar
Material (W)	AL Aluminium
Last digit 31	Aluminium wrought alloy AlMgSi according to DIN 1725 TI 1 G-AlMg5Si for sand casting
Last digit 32	Aluminium casting alloy G-AISi7Mg according to DIN 1725 TI 2
Seal rings DRKDS* DRG	NBR, white (standard) * we deliver fundamentally seal rings for high pressure and low pressure (DS)
alternative for DRKDS alternative for DRG	Silikon, transparent or VITON, green PTFE, white (please order separate)

Design AV

Material (W)	AV	Aluminium wrought alloy / 1.4581/318 or 1.457X
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product touching parts made of 1.4571 / 316 Ti

Design VA

Material (W)	VA	Coupling complete made of 1.4581/318 or 1.457X
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Fixed couplings SP with locking pawl on request

Order code											
Storz	Type	NG	G	W	ID-Nr.	KA	Li.	L	GL	D	A
52	K - FSZ 052	IG1¼	AL	4 02898 31	66	32	32	20	98	17	
52	K - FSZ 052	IG1¼	VA		66	32	32	20	98	17	
52	K - FSZ 052	IG1½	AL	4 02690 31	66	32	32	20	98	17	
52	K - FSZ 052	IG1½	VA		66	32	32	20	98	17	
52	K - FSZ 052	IG2	AL	3 00001 31	66	44.5	40	20	98	17	
52	K - FSZ 052	IG2	VA		66	44.5	40	20	98	17	
52	K - FSZ 052	IG2½	AL	4 02517 31	66	44.5	40	20	98	17	
52	K - FSZ 052	IG2½	VA		66	44.5	40	20	98	17	
65	K - FSZ 065	IG2	AL	4 03991 31	81	45	37	20	118	17	
65	K - FSZ 065	IG2	VA		81	45	37	20	118	17	
65	K - FSZ 065	IG2½	AL	3 01985 31	81	58	52	20	118	17	
65	K - FSZ 065	IG2½	VA		81	58	52	20	118	17	
75	K - FSZ 075	IG2	AL	4 01315 31	89	50	38	20	126	19	
75	K - FSZ 075	IG2	VA		89	50	38	20	126	19	
75	K - FSZ 075	IG2½	AL	3 00006 31	89	64.5	42	20	126	19	
75	K - FSZ 075	IG2½	VA		89	64.5	42	20	126	19	
75	K - FSZ 075	IG3	AL	4 01200 31	89	64.5	39	22	126	19	
75	K - FSZ 075	IG3	VA		89	64.5	39	22	126	19	
90	K - FSZ 090	IG3	AL	3 00930 31	105	78	40	22	144	19	
90	K - FSZ 090	IG3	AV		105	78	40	22	144	19	
100	K - FSZ 100	IG4	AL	3 01745 31	115	89.5	47	25	155	22	
100	K - FSZ 100	IG4	AV		115	89.5	47	25	155	22	
110	K - FSZ 110	IG4	AL	2 00970 31	133	100	48	25	180	22	
110	K - FSZ 110	IG4	AV		133	100	48	25	180	22	
110	K - FSZ 110	IG4	VA	2 00971 31	133	100	48	25	180	22	
110	K - FSZ 110	IG4½	AL		133	100	48	25	180	22	
110	K - FSZ 110	IG4½	AV		133	100	48	25	180	22	
125	K - FSZ 125	IG5	AL	3 01114 31	148	115	52	28	195	24	
125	K - FSZ 125	IG5	AV		148	115	52	28	195	24	
125	K - FSZ 125	IG5	VA		148	115	52	28	195	24	
150	K - FSZ 150	IG6	AL	3 01754 31	160	130	56	30	220	33	
150	K - FSZ 150	IG6	AV		160	130	56	30	220	33	
150	K - FSZ 150	IG6	VA		160	130	56	30	220	33	
165	K - FSZ 165	IG6	AL	2 00983 32	188	150	64	36	245	29	
165	K - FSZ 165	IG6	AV		188	150	64	36	245	29	
165	K - FSZ 165	IG7	AL	2 00271 32	188	150	64	36	245	29	
165	K - FSZ 165	IG7	AV		188	150	64	36	245	29	
205	K - FSZ 205	IG8	AL	2 00286 32	220	186	75	40	280	38	
205	K - FSZ 205	IG8	AV		220	186	75	40	280	38	
250	K - FSZ 250	IG10	AL	1 00295 32	278	236	78	42	350	45	
250	K - FSZ 250	IG10	AV		278	236	78	42	350	45	

NG = Nominal size
W = Material
G = Thread
GL = Thread length
Li = Inner diameter
KA = Cam distance
D = Diameter

According to Directive 2014/68/EU for pressure equipment:

Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100

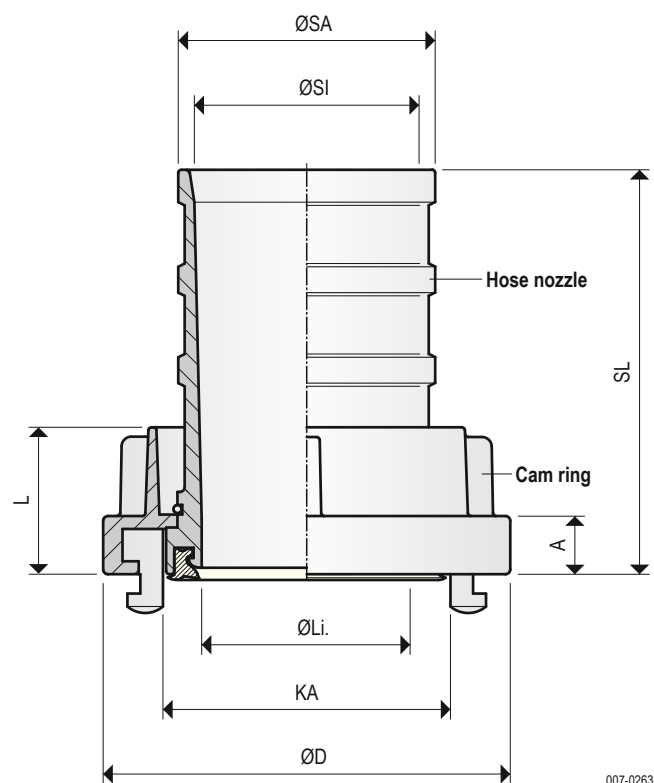
For example in pneumatic conveyor systems with combustible dusts etc.

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:

The couplings have no potential source of ignition on their own.

Technical data

Couplings with hose nozzle



007-0263

Technical data

Ambient temperature	-25 °C ... +120 °C
Pressure	-0.9 bar ... 10 bar
Material (W)	AL Aluminium
Last digit	33 Aluminium general Gravity die casting according to DIN 1725 TI 2 Forging according to DIN 1725 TI 1
Seal rings	DRKDS* NBR, white (standard) * we deliver fundamentally seal rings for high pressure and low pressure (DS)
alternative (please order separate)	Silikon, transparent VITON green

Design AV

Material (W)	AV	Cam part made of wrought alloy AlMgSi Hose nozzle made of 1.4581 / 318 or 1.457X
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Design VA

Material (W)	VA	Coupling complete made of 1.4581 / 318 or 1.457X
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Hose couplings SP with locking pawl on request

Order code												
Storz	Type	NG	SA	W	ID-Nr.	KA	Li	D	L	A	SL	SI
52	K - SSZ 052-038 AL	AL			6 00243 33	66	31.5	98	43	17	90	31.5
52	K - SSZ 052-038 AV	AV				66	31.5	98	43	17	90	31.5
52	K - SSZ 052-038 VA	VA				66	31.5	98	43	17	90	31.5
52	K - SSZ 052-042 AL	AL			6 01009 33	66	33	98	43	17	90	36.5
52	K - SSZ 052-042 AV	AV				66	33	98	43	17	90	36.5
52	K - SSZ 052-042 VA	VA				66	33	98	43	17	90	36.5
52	K - SSZ 052-052 AL	AL			4 02452 33	66	45	98	43	17	90	45
52	K - SSZ 052-052 AV	AV				66	45	98	43	17	90	45
52	K - SSZ 052-052 VA	VA				66	45	98	43	17	90	45
65	K - SSZ 065-052 AL	AL			6 00115 33	81	45	118	34.5	17	90	45
65	K - SSZ 065-052 AV	AV				81	45	118	34.5	17	90	45
65	K - SSZ 065-052 VA	VA				81	45	118	34.5	17	90	45
65	K - SSZ 065-065 AL	AL			6 00173 33	81	57	118	34.5	17	100	58
65	K - SSZ 065-065 AV	AV				81	57	118	34.5	17	100	58
65	K - SSZ 065-065 VA	VA				81	57	118	34.5	17	100	58
65	K - SSZ 065-075 AL	AL			6 00128 33	81	65	118	34.5	17	100	65
65	K - SSZ 065-075 AV	AV				81	65	118	34.5	17	100	65
65	K - SSZ 065-075 VA	VA				81	65	118	34.5	17	100	65
75	K - SSZ 075-075 AL	AL			6 03164 33	89	65	126	45	18	125	65
75	K - SSZ 075-075 AV	AV				89	65	126	45	18	125	65
75	K - SSZ 075-075 VA	VA				89	65	126	45	18	125	65
75	K - SSZ 075-080 AL	AL			6 00179 33	89	70	126	45	18	125	70
75	K - SSZ 075-080 AV	AV				89	70	126	45	18	125	70
75	K - SSZ 075-080 VA	VA				89	70	126	45	18	125	70
90	K - SSZ 090-090 AL	AL			6 00184 33	105	80	144	45	19	140	80
90	K - SSZ 090-090 AV	AV				105	80	144	45	19	140	80
100	K - SSZ 100-100 AL	AL			6 00185 33	115	90	155	47	22	150	90
100	K - SSZ 100-100 AV	AV				115	90	155	47	22	150	90
100	K - SSZ 100-100 VA	VA				115	90	155	47	22	150	90
110	K - SSZ 110-100 AL	AL			6 00155 33	133	90	180	48	22	170	90
110	K - SSZ 110-100 AV	AV				133	90	180	48	22	170	90
110	K - SSZ 110-100 VA	VA				133	90	180	48	22	170	90
110	K - SSZ 110-110 AL	AL			4 02463 33	133	100	180	48	22	170	100
110	K - SSZ 110-110 AV	AV				133	100	180	48	22	170	100
110	K - SSZ 110-110 VA	VA				133	100	180	48	22	170	100
125	K - SSZ 125-125 AL	AL			6 00187 33	148	113	195	52	24	196	113
125	K - SSZ 125-125 AV	AV				148	113	195	52	24	196	113
125	K - SSZ 125-125 VA	VA				148	113	195	52	24	196	113
150	K - SSZ 150-150 AL	AL			6 03590 33	160	138	220	56	33	180	138
150	K - SSZ 150-150 AV	AV				160	138	220	56	33	180	138
150	K - SSZ 150-150 VA	VA				160	138	220	56	33	180	138
165	K - SSZ 165-150 AL	AL			6 00198 33	188	150	245	64	29	275	150
165	K - SSZ 165-150 AV	AV				188	150	245	64	29	275	150
165	K - SSZ 165-150 VA	VA				188	150	245	64	29	275	150
205	K - SSZ 205-205 AL	AL			6 00201 33	220	185	280	75	38	375	185
205	K - SSZ 205-205 AV	AV				220	185	280	75	38	375	185
205	K - SSZ 205-205 VA	VA				220	185	280	75	38	375	185
250	K - SSZ 250-260 AL	AL			2 00713 33	278	242	350	78	45	400	242
250	K - SSZ 250-260 AV	AV				278	242	350	78	45	400	242
250	K - SSZ 250-260 VA	VA				278	242	350	78	45	400	242

NG = Nominal size
W = Material
SA = Hose nozzle-outside-Ø
SI = Hose nozzle-inside-Ø
SL = Hose nozzle-length
G = Thread
Li = Inner diameter
KA = Cam distance
D = Diameter

According to Directive 2014/68/EU for pressure equipment:

Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100

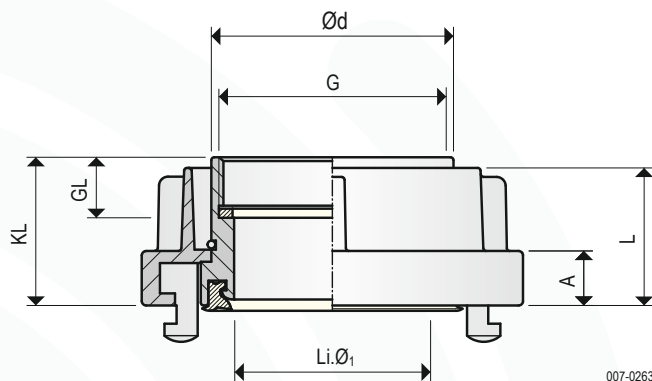
For example in pneumatic conveyor systems with combustible dusts etc.

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:

The couplings have no potential source of ignition on their own.

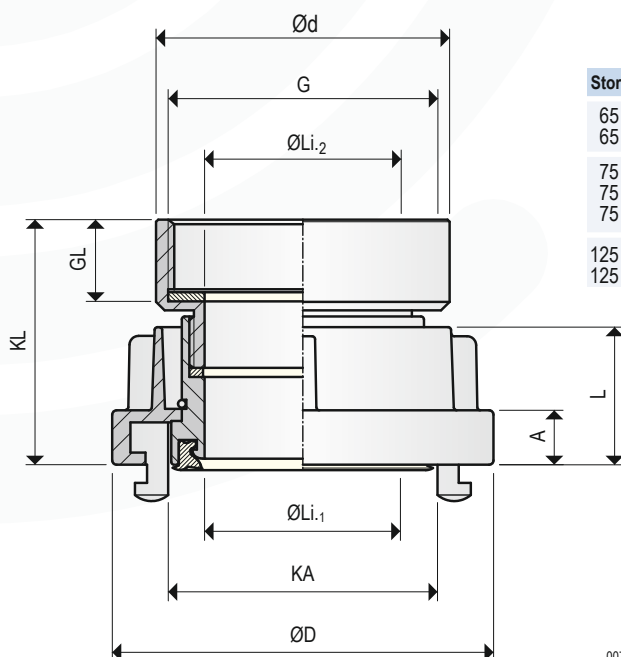
Technical data

Couplings turnable with female thread



007-0263

Order code												
Storz	Type	NG	G	W	ID-Nr.	KA	Li.1	GL	D	A	L	KL
52	K - LSZ 052 IG1¼	AL			5 02374 33	66	43	20	98	17.5	32	59.5
52	K - LSZ 052 IG1½	AL			5 01958 33	66	43	25	98	17.5	43	61.5
52	K - LSZ 052 IG1½	AV				66	43	25	98	17.5	43	61.5
52	K - LSZ 052 IG1½	VA				66	43	25	98	17.5	43	61.5
52	K - LSZ 052 IG2	AL			4 02691 33	66	44.5	20	98	17	43.5	68.5
52	K - LSZ 052 IG2	AV				66	44.5	20	98	17	43.5	68.5
52	K - LSZ 052 IG2	VA			4 04128 46	66	45	20	98	17	43.5	68.5
75	K - LSZ 075 IG2½	AL			5 01959 33	89	62	20	126	18.5	45	82.5
75	K - LSZ 075 IG2½	AV				89	62	20	126	18.5	45	82.5
75	K - LSZ 075 IG2½	VA			4 03420 46	89	62	20	126	18.5	45	82.5
90	K - LSZ 090 IG3	AL				105	77	20	144	20	43	97.5
90	K - LSZ 090 IG3	AV				105	77	20	144	20	43	97.5
110	K - LSZ 110 IG4	AL			3 02337 33	133	98	20	180	23	49	126.5
110	K - LSZ 110 IG4	AV				133	98	20	180	23	49	126.5
110	K - LSZ 110 IG4	VA				133	98	20	180	23	49	126.5
125	K - LSZ 125 IG4	AL				148	108	20	195	25	53	124
125	K - LSZ 125 IG4	AV				148	108	20	195	25	53	124



007-0263

Order code												
Storz	Type	NG	G	W	ID-Nr.	KA	Li.1	Li.2	GL	D	A	L
65	K - LSZ 065 IG2½	AL				81	54.5	65	20	118	17.5	34.5
65	K - LSZ 065 IG2½	AV				81	54.5	65	20	118	17.5	34.5
75	K - LSZ 075 IG3	AL			6 01573 33	89	61	75	20	126	18.5	45
75	K - LSZ 075 IG3	AV				89	61	75	20	126	18.5	45
75	K - LSZ 075 IG3	VA				89	61	75	20	126	18.5	45
125	K - LSZ 125 IG5	AL				148	114.5	114.5	29	195	25	53
125	K - LSZ 125 IG5	VA				148	114.5	114.5	29	195	25	53

NG = Nominal size
W = Material
G = Thread
GL = Thread length
KL = Couplings length
Li.1 = Inner diameter
Li.2 = Inner diameter
KA = Cam distance
D = Diameter
d = Diameter

According to Directive 2014/68/EU for pressure equipment:

Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100

For example in pneumatic conveyor systems with combustible dusts etc.

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:

The couplings have no potential source of ignition on their own.

Technical data

Ambient temperature	-25 °C ... +120 °C
Pressure	-0.9 bar ... 10 bar
Material (W)	AL Aluminium
Last digit	33 Aluminium general Gravity die casting according to DIN 1725 TI 2 Forging according to DIN 1725 TI 1
Seal rings DRKDS* DRG	NBR, white (standard) * we deliver fundamentally seal rings for high pressure and low pressure (DS)
alternative for DRKDS alternative for DRG	Silikon, transparent or VITON, green PTFE, white (please order separate)

Design AV

Material (W)	AV	Cam part made of wrought alloy AlMgS product touching parts made of 1.457X
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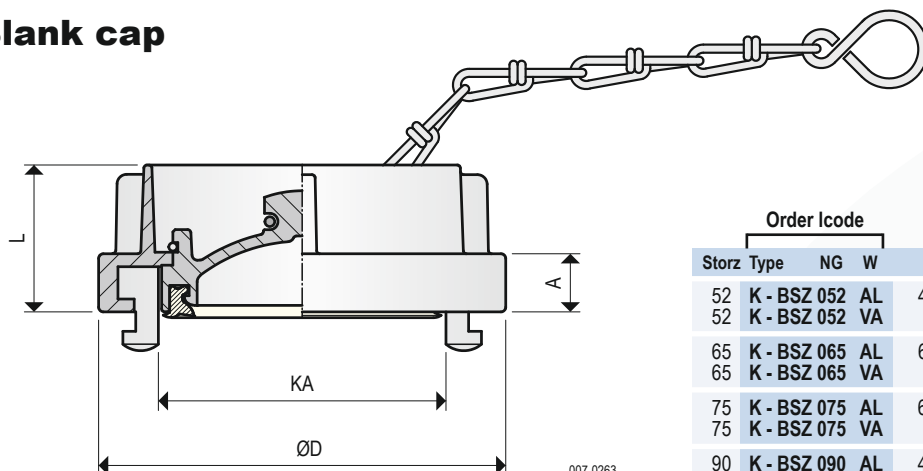
Design VA

Material (W)	VA	Coupling complete made of 1.4581 / 318 or 1.457X
Last digit	46	1.4581 / 318 or 1.457X

Loose couplings SP with locking pawl on request

Technical data

Blank cap



NG = Nominal size
W = Material
KA = Cam distance
D = Diameter

Technical data

Ambient temperature -25 °C ... +120 °C
Pressure -0.9 bar ... 10 bar
Material (W) AL Aluminium
Last digit 33 Aluminium general
Gravity die casting according to DIN 1725 TI 2
Forging according to DIN 1725 TI 1
Seal rings DRKDS* NBR, white (standard)
* we deliver fundamentally seal rings
for high pressure and low pressure (DS)

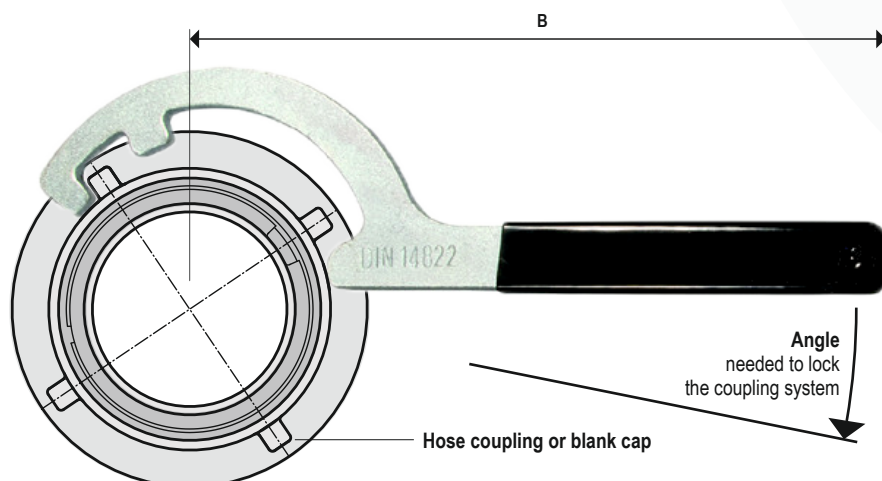
alternative
(please order separate) Silikon, transparent
VITON, green

Order lcode								
Storz	Type	NG	W	ID-Nr.	KA	L	D	A
52	K - BSZ 052	AL		4 02476 33	66	43	98	17
52	K - BSZ 052	VA			66	43	98	17
65	K - BSZ 065	AL		6 01436 33	81	34,5	118	17
65	K - BSZ 065	VA			81	34,5	118	17
75	K - BSZ 075	AL		6 02897 33	89	45	126	18
75	K - BSZ 075	VA			89	45	126	18
90	K - BSZ 090	AL		4 02486 33	105	45	144	19
90	K - BSZ 090	VA			105	45	144	19
100	K - BSZ 100	AL		4 02480 33	115	47	155	22
100	K - BSZ 100	VA			115	47	155	22
110	K - BSZ 110	AL		6 02898 33	133	48	180	22
110	K - BSZ 110	VA			133	48	180	22
125	K - BSZ 125	AL		4 02495 33	148	52	195	24
125	K - BSZ 125	VA			148	52	195	24
150	K - BSZ 150	AL		4 02498 33	160	56	220	33
150	K - BSZ 150	VA			160	56	220	33
165	K - BSZ 165	AL		4 02500 33	188	64	245	29
165	K - BSZ 165	VA			188	64	245	29
205	K - BSZ 205	AL		4 02504 33	220	75	280	38
205	K - BSZ 205	VA			220	75	280	38
250	K - BSZ 250	AL		2 01139 33	278	78	350	45
250	K - BSZ 250	VA			278	78	350	45

Design VA

Material (W) VA Coupling complete made of 1.4581 / 318 or 1.457X

Required space for the hose coupling wrench

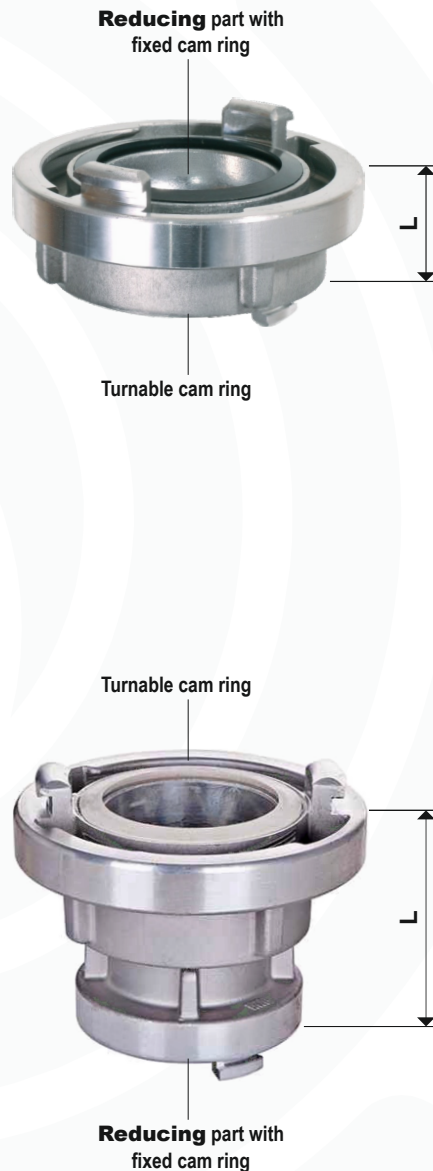


Storz	B	Key	Angle
52 C	215	B-C	85.0°
65	225	B-C	85.5°
75 B	225	B-C	84.5°
90	330	A-B-C	79.0°
100	335	A-B-C	79.0°
110 A	335	A-B-C	79.5°
125		150-125	87.5°
150		150-125	63.0°
165		250-165	
205		250-165	
250		250-165	

Data not yet available!

Technical data

Reducing couplings



Storz/Storz	Order code					
	Type	NG - NG W	ID-Nr.	KA/KA	L	
65/52	K - RSZ 065-052 AL	4 02325 33	81/66	50	nd	
65/52	K - RSZ 065-052 VA	4 02325 46	81/66	50	nd	
75/52	K - RSZ 075-052 AL	4 01150 33	89/66	39		
75/52	K - RSZ 075-052 VA	4 00389 46	89/66	76	nd	
90/75	K - RSZ 090-075 AL	4 00796 33	105/89	60	nd	
100/75	K - RSZ 100-075 AL	6 03094 33	115/89	47		
110/52	K - RSZ 110-052 AL	6 03163 33	133/66	100	nd	
110/75	K - RSZ 110-075 AL	3 00044 33	133/89	48		
110/75	K - RSZ 110-075 VA	4 02288 46	133/89	55	nd	
125/110	K - RSZ 125-110 AL	6 01916 33	148/133	102	nd	
150/110	K - RSZ 150-110 AL	3 01766 33	160/133	89	nd	
150/125	K - RSZ 150-125 AL	6 02546 33	160/148	120	nd	
165/110	K - RSZ 165-110 AL	6 01086 33	188/133	96	nd	
205/150	K - RSZ 205-150 AL	6 03936 33	220/160	137	nd	
250/205	K - RSZ 250-205 AL	6 06702 33	278/220	170	nd	

Technical data

Ambient temperature	-25 °C ... +120 °C
Pressure	-0.9 bar ... 10 bar
Material (W)	AL Aluminium
Last digit	33 Aluminium general Gravity die casting according to DIN 1725 TI 2 Forging according to DIN 1725 TI 1
Seal rings	DRKDS* NBR, white (standard) * we deliver fundamentally seal rings for high pressure and low pressure (DS)
alternative (please order separate)	Silikon, transparent VITON, green

Design VA

Material (W)	VA	Coupling complete made of 1.4581 / 318 or 1.457X
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NG = Nominal size
 W = Material
 KA = Cam distance
 L = Length
 nd = not turnable

According to Directive 2014/68/EU for pressure equipment:

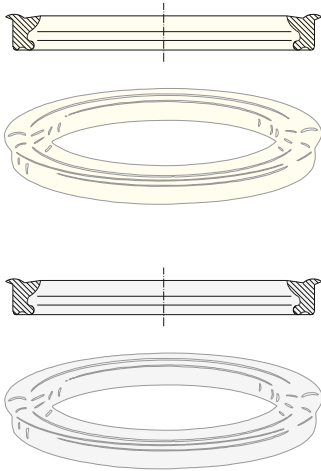
Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100

For example in pneumatic conveyor systems with combustible dusts etc.

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:

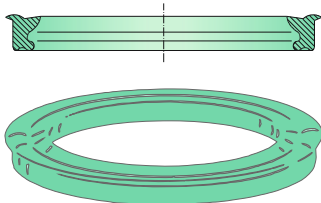
The couplings have no potential source of ignition on their own.

Technical data



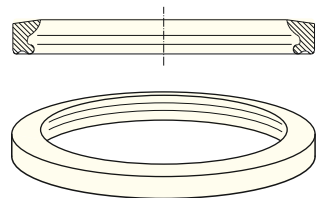
DRK seal rings for high and low pressure operation (DS)

Size	Dimensions (mm)	NBR (white)	Silikon (transparent)
		Article no.	Article no.
52 C	60x47x10.0	K-SZ052DRKDS-NBR	K-SZ052DRKDS-SIK
65	75x60x10.0	K-SZ065DRKDS-NBR	K-SZ065DRKDS-SIK
75 B	82x67x10.5	K-SZ075DRKDS-NBR	K-SZ075DRKDS-SIK
90	98x93x10.0	K-SZ090DRKDS-NBR	K-SZ090DRKDS-SIK
100	108x93x10.0	K-SZ100DRKDS-NBR	K-SZ100DRKDS-SIK
110 A	124x102x12.0	K-SZ110DRKDS-NBR	K-SZ110DRKDS-SIK
125	139x177x12.5	K-SZ125DRKDS-NBR	K-SZ125DRKDS-SIK
150	152x132x11.5	K-SZ150DRKDS-NBR	K-SZ150DRKDS-SIK
165	177x152x12.5	K-SZ165DRKDS-NBR	
205	211x187x16.0	K-SZ205DRKDS-NBR	
250	268.5x240x17	K-SZ250DRKDS-NBR (black)	



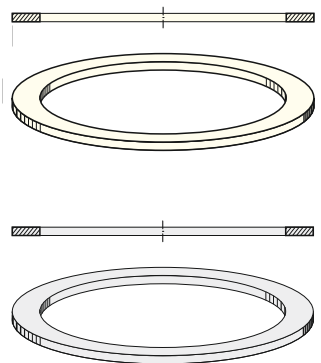
DRK seal rings for high and low pressure operation (DS)

Size	Dimensions (mm)	VITON (green)
		Article no.
52 C	60x47x10.0	K-SZ052DRKDS-VI
75 B	82x67x10.5	K-SZ075DRKDS-VI
110 A	124x102x12.0	K-SZ110DRKDS-VI
125	139x117x12.5	K-SZ125DRKDS-VI
150	152x132x11.5	K-SZ150DRKDS-VI



DRK seal rings for high pressure operation (D)

Size	Dimensions (mm)	NBR (white)
		Article no.
52 C	60x47x10.5	K-SZ052DRKD-NBR
65	75x60x10.5	K-SZ065DRKD-NBR
75 B	82x67x10.0	K-SZ075DRKD-NBR
100	106x93x10.5	K-SZ100DRKD-NBR

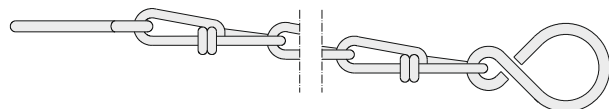


DRG thread flat seal rings

Size	Dimensions (mm)	NBR (white)	PTFE (white)
		Article-no.	Article-no.
G 2	60x47x3	K-SZIG2 DRG-NBR	K-SZIG2 DRG-PT
G 2½	76x66x3	K-SZIG2½DRG-NBR	K-SZIG2½DRG-PT
G 3	88x78x3	K-SZIG3 DRG-NBR	K-SZIG3 DRG-PT
G 4	113x100x3	K-SZIG4 DRG-NBR	K-SZIG4 DRG-PT
G 4½	126x105x3	K-SZIG4½DRG-NBR	K-SZIG4½DRG-PT
G 5	138x118x3	K-SZIG5 DRG-NBR	K-SZIG5 DRG-PT
G 6	164x152x4	K-SZIG6 DRG-NBR	K-SZIG6 DRG-PT

KT knotted-link chain with S-hook

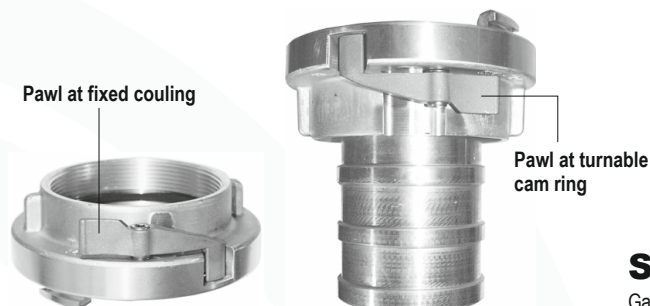
Size	Chain length	Steel, galvanized	Stainless steel V2A
		Article-no.	Article-no.
052-090	280 mm	K-280KT-STV	K-280KT-V2A
100-110	390 mm	K-390KT-STV	K-390KT-V2A
125-205	535 mm	K-535KT-STV	on request



Technical data

Coupling with pawl

Protection against independent and unintentionally decoupling due to heavy vibrations and existing torsional stress at hoses.



Order code

K - . SZ ...	SP	Stainless steel
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Safety clamp

Galvanised steel covered with rubber

Safety clamp

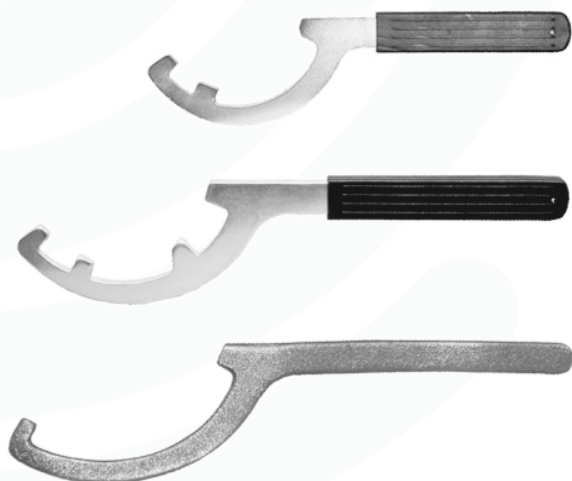
Galvanised steel covered with rubber



Order code

K - XSZ052 - SC	78 000098 00
K - XSZ075 - SC	78 000126 00
K - XSZ090 - SC	78 000144 00
K - XSZ100 - SC	78 000156 00
K - XSZ110 - SC	78 000182 00
K - XSZ125 - SC	78 000196 00
K - XSZ150 - SC	78 000215 00

Hose coupling wrench



Order code

K - XSZ - BC	3 01680 48	Steel, galvanised
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K - XSZ - ABC	2 01416 48	Steel, galvanised
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K - XSZ - 150-125	3 00686 42	Malleable iron
K - XSZ - 250-165	2 00371 49	Steel

Hose coupling wrench, loose



Order code

K - XSZ - KG110	6 02930 33	Aluminium
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Hinged coupling handles for coupling Storz 110-A for subsequent mounting.

Planning information

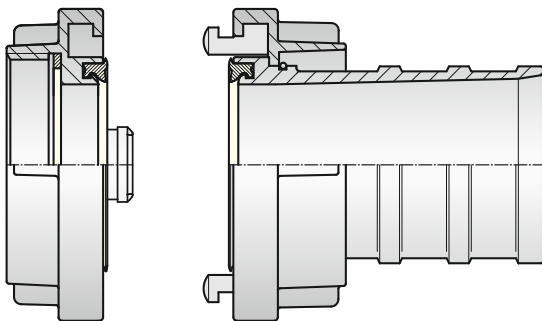
Storz couplings acc. to DIN

Designed for liquids (firefighters - water).
Only restrictedly suitable for pneumatic conveying of bulk solids.

The sizes **Storz 75 IG2½**, **Storz 75 IG3** and **Storz 110 IG4** in the standard design are used at silo vehicles and silo filling pipes.

Fixed coupling

Hose coupling



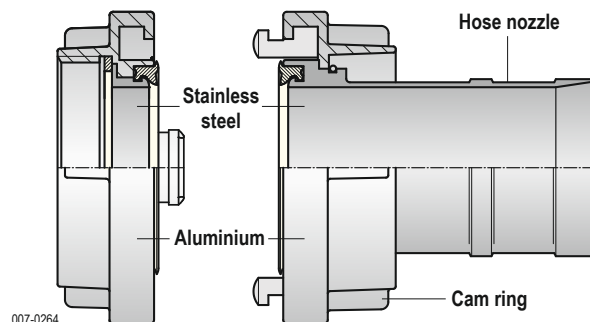
007-0263

Standard design

- Female thread acc. to ISO 228 with inlaid thread seal ring.
1. Complete made of Aluminium.
 2. Cam ring made of Aluminium, hose nozzle made of stainless steel.
 3. Complete made of stainless steel.

Fixed coupling

Hose coupling

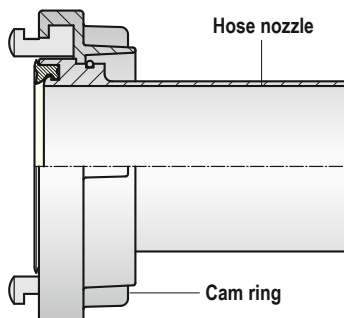


007-0264

Inlay and hose nozzle made of stainless steel

- Female thread acc. to ISO 228 with inlaid thread seal ring.
 - Hose nozzle with bevelled edge to the hose.
 - Outside-Ø especially matched with the conveying hose.
 - Inside-Ø of hose nozzle and fixed coupling are the same.
1. Fixed coupling made of Aluminium, with inlay made of stainless steel or complete made of stainless steel.
 2. Hose coupling made of Aluminium, hose nozzle made of stainless steel and cam ring made of Aluminium or complete made of stainless steel.

Hose coupling

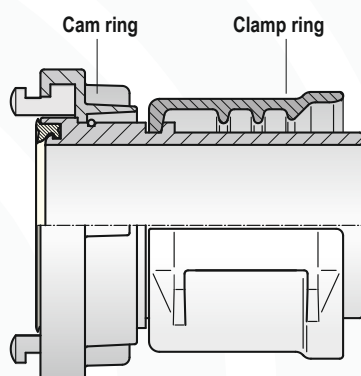


007-0264

Individual hose nozzle

- Hose nozzle plain and thin-walled.
 - Outside-Ø especially matched with the conveying hose.
 - Inside-Ø of hose nozzle and fixed coupling are the same.
1. Complete made of Aluminium.
 2. Cam ring made of Aluminium, hose nozzle made of stainless steel.
 3. Complete made of stainless steel.

Planning information

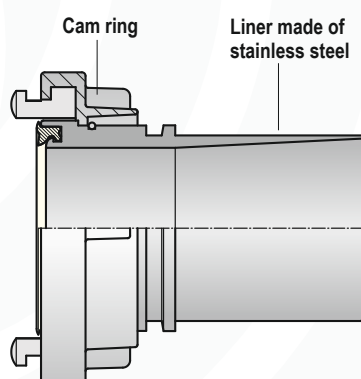


007-0264

Liner for clamp ring

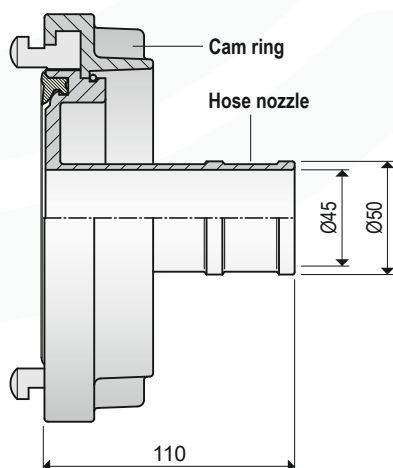
- Liner (hose nozzle) acc. to EN 14420-2.
1. Complete made of Aluminium.
 2. Cam ring made of Aluminium, hose nozzle made of stainless steel.
 3. Complete made of stainless steel.

Clamp rings see page 24.



Liner with marginal abutting edges

- Liner (hose nozzle) outside acc. to EN 14420-2.
 - Inside-Ø of hose nozzle and fixed coupling are the same.
 - Hose nozzle beveled to the hose.
1. Complete made of Aluminium.
 2. Cam ring made of Aluminium, hose nozzle made of stainless steel.
 3. Complete made of stainless steel.



007-0264

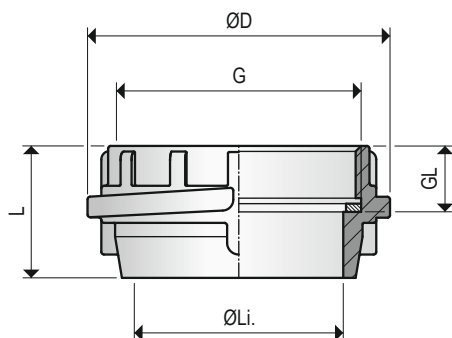
Individual hose nozzle

- Hose nozzle individual matched to the hose-Ø respectively to the continuative pipe-Ø.
 - Outside with grooves for fixing clamps, plain or with saw tooth grooves.
1. Cam ring made of Aluminium, hose nozzle made of all common materials.
 2. Complete made of stainless steel.

Manufactured for the connection of dry air to the filling pipe of a silo that is used for the storage of e.g. granulated sugar.

Technical data

Father couplings with female thread



007-0402

NG = Nominal size
 G = Thread
 W = Material
 Li. = Inner diameter
 GL = Thread length
 D = Largest diameter

Technical data

Ambient temperature -25 °C ... +90 °C
 different temperatures on request

Pressure -0,8 bar ... 16 bar

Material (W) MS Brass

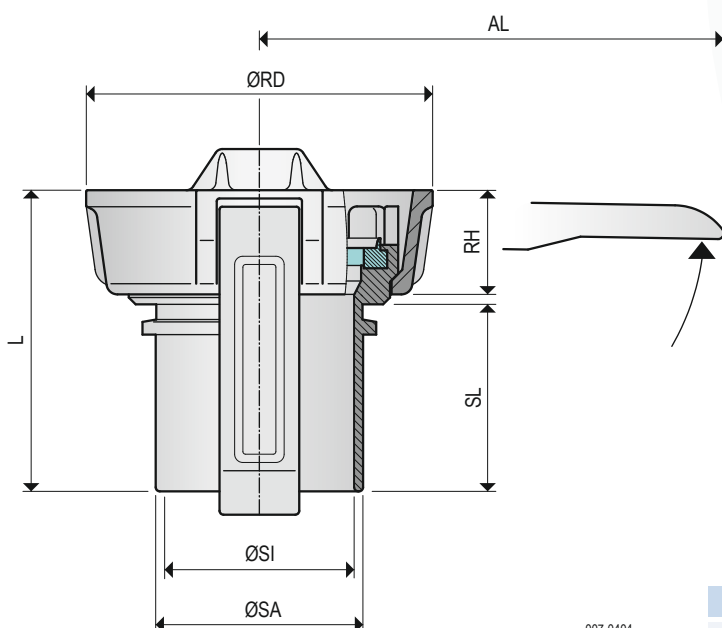
Thread seal ring DRG Polyurethan, blue

Material (W) VA Stainless steel 1.4408/316

Thread seal ring DRG PTFE

VK	Type	NG	G	W	Li.	L	GL	D
DN50	K - VK 050 IG2 MS	48	39	20	77			
DN50	K - VK 050 IG2 VA	48	39	20	77			
DN80	K - VK 080 IG3 MS	76	48	24	100			
DN80	K - VK 080 IG3 VA	76	48	24	100			
DN100	K - VK 100 IG4 MS	95	47	25	140			
DN100	K - VK 100 IG4 VA	95	47	25	140			

Mother coupling with liner



007-0404

Technical data

Ambient temperature -25 °C ... +90 °C
 different temperatures on request

Pressure -0,8 bar ... 16 bar

Material (W) MS Brass

Coupling seal ring DRK NBR, black

Material (W) VA Stainless steel 1.4408/316

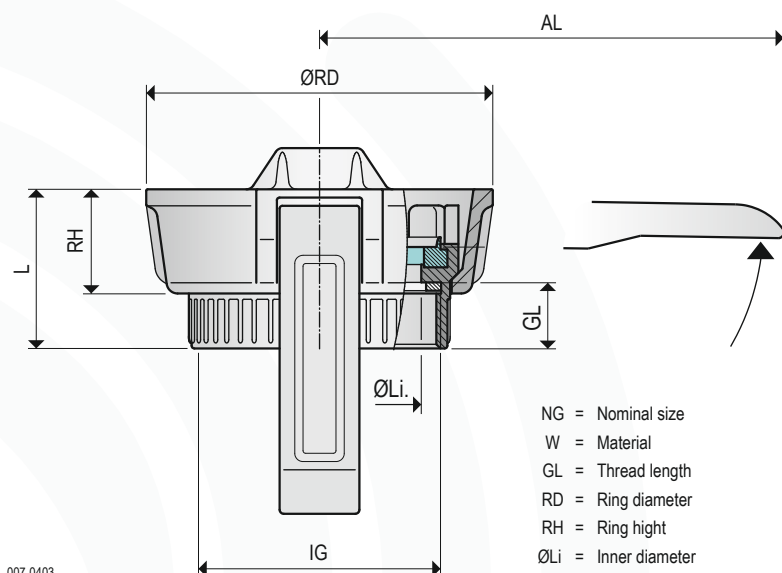
Coupling seal ring DRK Hypalon, green

NG = Nominal size
 W = Material
 SA = Hose nozzle outside diameter
 SI = Hose nozzle inner diameter
 SL = Hose nozzle length
 RD = Ring diameter
 RH = Ring height

MK	Type	NG	SA	W	SI	SL	L	RD	RH	AL
DN50	K - MKS 050 - 050 MS	45.5	50	81.5	90	29	185			
DN50	K - MKS 050 - 050 VA	45.5	50	81.5	90	29	185			
DN80	K - MKS 080 - 075 MS	70.5	68	109.5	126	38	230			
DN80	K - MKS 080 - 075 VA	70.5	68	109.5	126	38	230			
DN100	K - MKS 100 - 100 MS	94.0	109	135.0	162	43	273			
DN100	K - MKS 100 - 100 VA	94.0	109	135.0	162	43	273			

Technical data

Mother couplings with female thread



Technical data

Ambient temperature -25 °C ... +90 °C
different temperatures on request

Pressure -0,8 bar ... 16 bar

Material (W) MS Brass

Thread seal ring DRG Polyurethan, blue

Coupling seal ring DRK NBR. black

Material (W) VA Stainless steel 1.4408/316

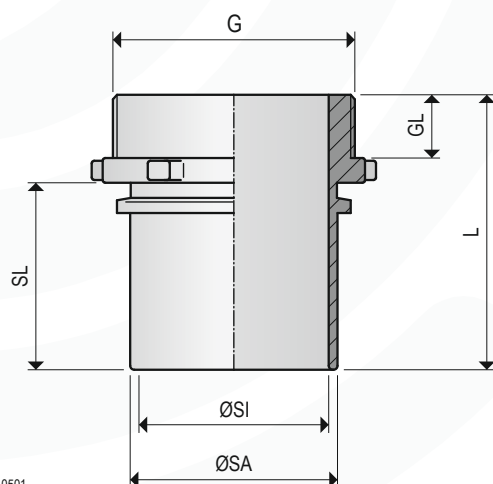
Thread seal ring DRG PTFE, white

Coupling seal ring DRK Hypalon, green

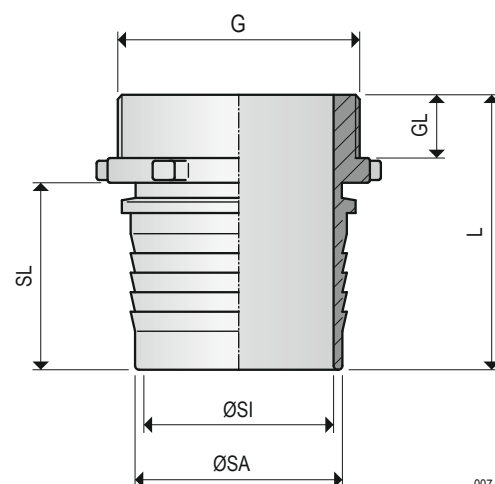
MK	Type	NG	IG	W	GL	L	RD	RH	AL	Li.
DN50	K - MK 050 IG2 MS	050	IG2	MS	20	00	90	29	185	46
DN50	K - MK 050 IG2 VA	050	IG2	VA	20	00	90	29	185	46
DN80	K - MK 080 IG3 MS	080	IG3	MS	23	00	126	38	230	74
DN80	K - MK 080 IG3 VA	080	IG3	VA	23	00	126	38	230	74
DN100	K - MK 100 IG4 MS	100	IG4	MS	25	00	135.0	43	273	95
DN100	K - MK 100 IG4 VA	100	IG4	VA	25	00	135.0	43	273	95

Hose barb with thread

K-GTS with liner



K-GTC with serrated hose shank



Technical data

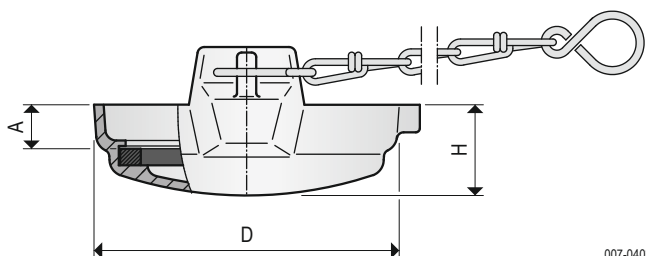
Material (W) MS Brass

Material (W) VA Stainless steel 1.4408/316

MK	Type	NG	G	W	Typ	NG	G	W	SA	SI	SL	GL	L
DN50	K - GTS 050 AG2 MS	050	AG2	MS	K - GTC 050 AG2 MS	050	AG2	MS	50	45.5	50	27	90
DN50	K - GTS 050 AG2 VA	050	AG2	VA	K - GTC 050 AG2 VA	050	AG2	VA	50	45.5	50	27	90
DN80	K - GTS 080 AG3 MS	080	AG3	MS	K - GTC 080 AG3 MS	080	AG3	MS	75	70.5	68	35	125
DN80	K - GTS 080 AG3 VA	080	AG3	VA	K - GTC 080 AG3 VA	080	AG3	VA	75	70.5	68	35	125
DN100	K - GTS 100 AG4 MS	100	AG4	MS	K - GTC 100 AG4 MS	100	AG4	MS	100	94.0	94	35	150
DN100	K - GTS 100 AG4 VA	100	AG4	VA	K - GTC 100 AG4 VA	100	AG4	VA	100	94.0	94	35	150

Technical data

End cap



007-0403

VK	Type	NG	W	A	D	H
DN50	K - MKB 050 AL	14	75	25		
DN50	K - MKB 050 MS	11	75	20		
DN80	K - MKB 080 AL	20	112	30		
DN80	K - MKB 080 MS	20	112	30		
DN100	K - MKB 100 AL	16	142	30		
DN100	K - MKB 100 MS	16	143	30		

Ambient temperature -25 °C ... +90 °C
different temperatures on request

Pressure -0,8 bar ... 16 bar

Material (W) MS Brass

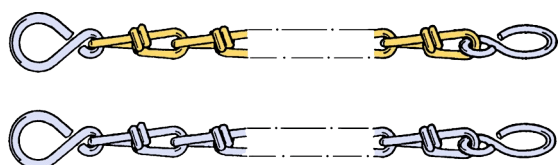
Coupling seal ring DRK NBR, black

Material (W) VA Stainless steel 1.4408/316

Coupling seal ring DRK Hypalon, green

Material (W) AL Aluminium

Coupling seal ring DRK NBR, black

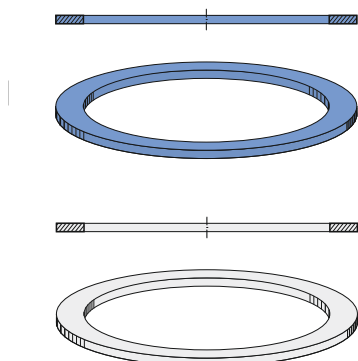


KT knotted-link chain with S-hook

Size	Chain length	Brass, hook V2A	complete V2A
		Article no.	Article no.
DN50	200 mm	K-200KT-MSV	K-200KT-V2A
DN80	300 mm	K-300KT-MSV	K-300KT-V2A
DN100	360 mm	K-360KT-MSV	K-360KT-V2A

Material (W) MS Brass

Material (W) VA Stainless steel 1.4408/316



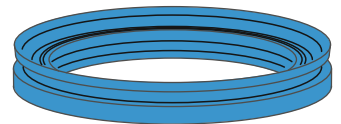
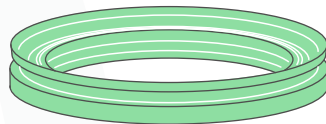
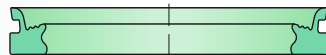
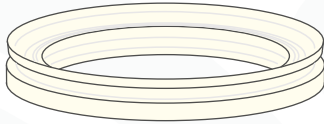
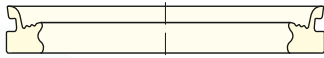
DRG thread flat seal rings

Size	Dimensions (mm)	Polyurethan (blue)	PTFE (white)
		Article-no.	Article-no.
DN50	60x49x2	K-TWIG2DRG-PU	K-TWIG2DRG-PT
DN80	88x77x3	K-TWIG3DRG-PU	K-TWIG3DRG-PT
DN100	114x100x3	K-TWIG4DRG-PU	K-TWIG4DRG-PT

Technical data

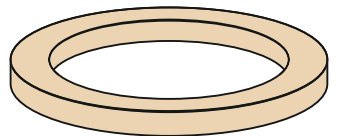
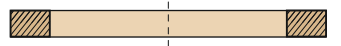
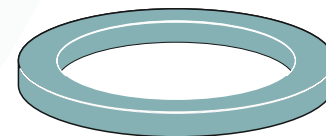
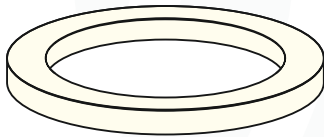
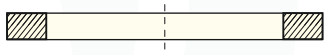
DRK road tanker coupling seal rings GSD

Size	Dimensions (mm)	NBR (white)	VITON® (black)	Hypalon® (green)	Polyurethan (blue)
		Article-no.	Article-no.	Article-no.	Article-no.
DN50	62x49x4.8	K-GSD100DRK-NBR	K-GSD100DRK-VI	K-GSD100DRK-HY	K-GSD100DRK-PU
DN80	92x77x6.0	K-GSD100DRK-NBR	K-GSD100DRK-VI	K-GSD100DRK-HY	K-GSD100DRK-PU



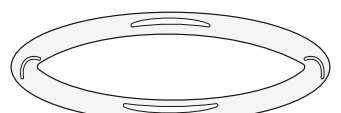
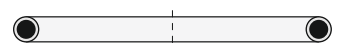
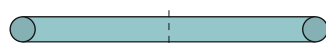
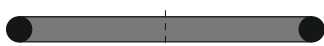
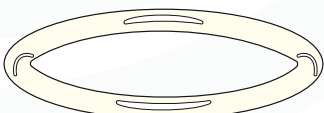
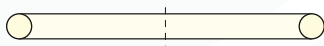
DRK road tanker coupling seal rings TWD

Size	Dimensions (mm)	NBR (white)	VITON® (black)	Hypalon® (green)	Polyurethan (honey)
		Article-no.	Article-no.	Article-no.	Article-no.
DN50	62x49x4.8	K-TWD100DRK-NBR	K-TWD100DRK-VI	K-TWD100DRK-HY	K-TWD100DRK-PU
DN80	92x77x6.0	K-TWD100DRK-NBR	K-TWD100DRK-VI	K-TWD100DRK-HY	K-TWD100DRK-PU



DRK road tanker coupling seal rings TWO

Size	Dimensions (mm)	NBR (white)	VITON® (black)	Hypalon® (green)	PTFE with VITON core
		Article-no.	Article-no.	Article-no.	Article-no.
DN100	114x100x7	K-TWO100DRK-NBR	K-TWO100DRK-VI	K-TWO100DRK-HY	K-TWO100DRK-PT



Planning information

Couplings DIN EN 14420-6

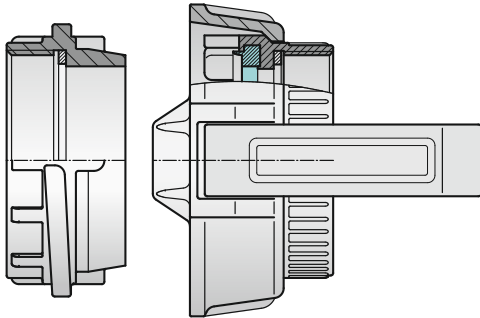
Designed for liquids (chemical and petrochemical industry).
Only restrictedly suitable for pneumatic conveying of bulk solids.

These road tanker couplings are used in all sizes for liquids at road tanker and tank filling pipes.

The sizes **DN80 IG3** and **DN100 IG4** are used for bulk solids also at silo vehicles and silo filling pipes.

Father couplings

Mother couplings

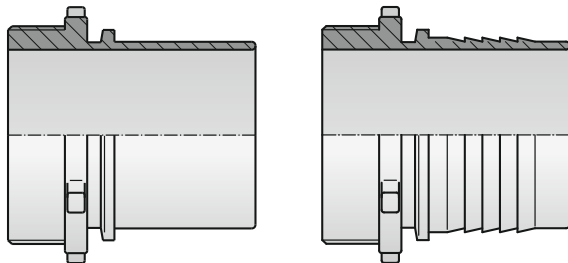


007-0401

Couplings with female thread

- Female thread acc. to ISO 228 with inlaid thread seal ring.

1. Complete made of Aluminium.
2. Complete made of stainless steel.



007-0400

007-0500

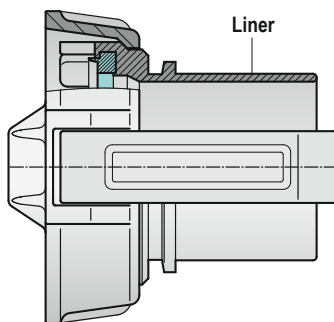
Hose nozzle with male thread

Intended for fitment to the father and mother coupling mentioned above.

- with plain liner.
- with serrated hose shank.

1. Complete made of brass.
2. Complete made of stainless steel.

Mother coupling



007-0401

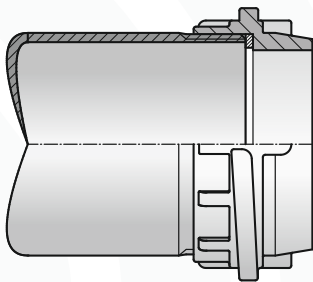
Mother coupling with liner

- Liner acc. to EN 14420-2.

1. Complete made of brass.
2. Complete made of stainless steel.

Planning information

For example:
conveying pipe 3" (88,9x3,2)

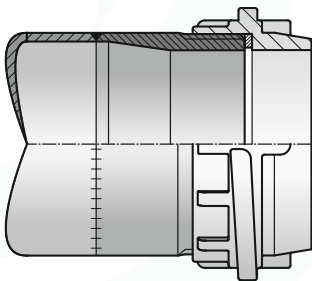


007-0406

Couplings with female thread

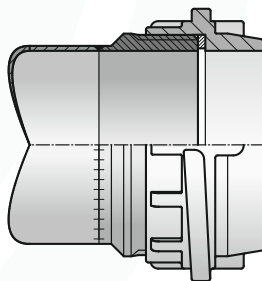
- Inch pipe acc. to DIN EN 10255.

For example:
conveying pipe 3" (88,9x3,2)



007-0406

For example:
conveying pipe 80x2

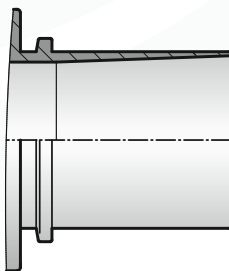


007-0406

Matched thread nozzle

- Passage without abutting edges.
- Inside-Ø matched with the father coupling.
- In case of larger pipe diameters with soft transition.

Nozzle at the mother coupling



007-0504

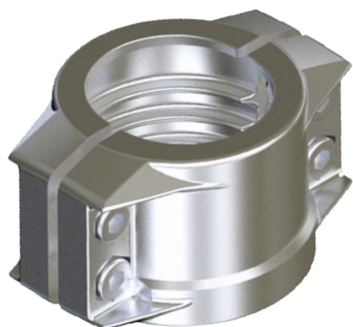
Liner with minor abutting edge

- Liner (hose nozzle) outside acc. to EN 14420-2.
- Inside beveled to the hose.

Planning information

Clamp rings DIN EN 14420-3

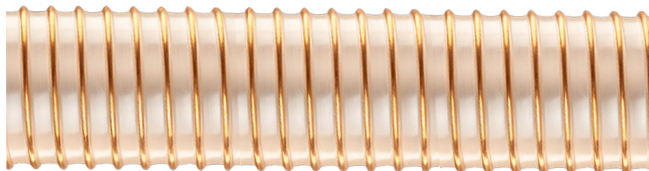
DIN EN 14420-3 (substitution for DIN 2817)



Type Aluminium	Type 1.4401 / 316	Hose inner Ø	Wall thickness	Clamping range Ø
K-SA038-06	K-SA038-06 VA	38 (1½")	6,5	50 - 52
K-SA038-08	---	38 (1½")	8	53 - 56
K-SA038-10	---	38 (1½")	10	57 - 60
K-SA040-07	---	40 (1½")	7	53 - 55
K-SA040-10	---	40 (1½")	10	59 - 61
K-SA050-08	K-SA050-08 VA	50 (2")	8	63 - 67
K-SA050-10	---	50 (2")	10	69 - 71
K-SA063-06	K-SA063-06 VA	63 (2½")	6	74 - 76
K-SA063-08	K-SA063-08 VA	63 (2½")	8	78 - 82
K-SA063-10	---	63 (2½")	10	84 - 87
K-SA075-08	K-SA075-08 VA	75 (3")	8	89 - 93
K-SA075-10	---	75 (3")	10	94 - 97
K-SA075-12	---	75 (3")	12	98 - 101
K-SA100-08	K-SA100-08 VA	100 (4")	8	114 - 119
K-SA100-10	---	100 (4")	10	118 - 122
K-SA125-10	---	125 (5")	10	143 - 148
K-SA150-10	---	150 (6")	10	168 - 174
K-SA150-13	---	150 (6")	13	174 - 180
K-SA200-12	---	200 (8")	12	222 - 229

Spiral conveying hoses

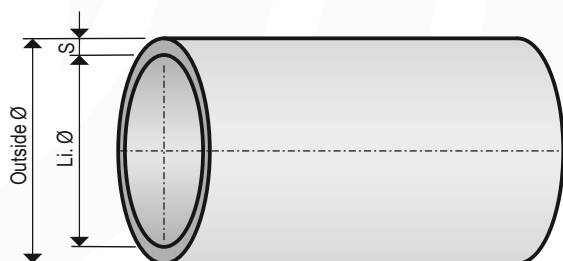
Hoses for the conveying of bulk solids



Inner Li. Ø mm	Operation pressure approx. bar	Low-pressure approx. bar	Bending radius approx. mm	Outside Ø approx. mm
38	4.4	0.94	95	48
40	4.3	0.94	100	50
50	4.0	0.94	125	61
55	3.8	0.89	140	65
60	3.6	0.89	150	70
65	3.3	0.89	165	75
70	3.2	0.89	175	80
75	3.0	0.89	190	87
80	2.8	0.89	200	93
90	2.4	0.89	225	103
100	2.1	0.87	250	115
115	1.8	0.87	290	129
120	1.7	0.87	300	134
125	1.7	0.87	315	140
150	1.5	0.87	450	167

Planning information

Conveying pipes



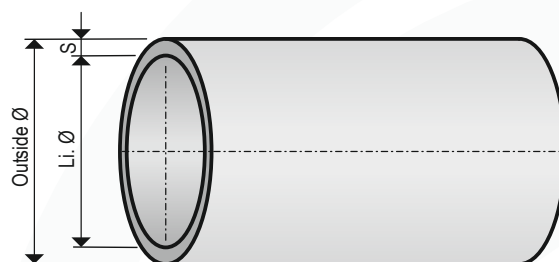
Pipes for conveying of bulk solids

Outside Ø mm	Wall thickness S mm	Inner Li. Ø mm
38.0	1.5	35.0
40.0	1.5	37.0
45.0	1.5	42.0
48.3	2.0	44.3
50.0	1.5	47.0
50.0	2.0	46.0
50.8	1.5	47.8
54.0	2.0	50.0
60.3	1.5	57.3
60.3	2.0	56.3
63.5	2.0	59.5
65.0	1.5	62.0
65.0	2.0	61.0
70.0	2.0	66.0
76.1	2.0	72.1
80.0	2.0	76.0
80.0	2.5	75.0
84.0	2.0	80.0
85.0	2.0	81.0
88.9	2.0	84.9
100.0	1.5	97.0
100.0	2.0	96.0
101.6	2.0	97.6
104.0	2.0	100.0
108.0	2.0	104.0
110.0	2.0	106.0
114.3	2.0	110.3
125.0	2.0	121.0
128.0	1.5	125.0
129.0	2.0	125.0
133.0	3.0	127.0
139.7	2.0	135.7
154.0	2.0	150.0
156.0	3.0	150.0
159.0	2.0	155.0
168.3	2.0	164.3
204.0	2.0	200.0
206.0	3.0	200.0

Planning information

Pipes DIN EN 10255

DIN EN 10255 (substitution for DIN 22440/2441)

BSP (British Standard Pipe)


Pipe nominal Ø Zoll	DN	Outside Ø mm	Heavy range - H		Middle range - M		Range - L		Range - L1		Range - L2	
			S mm	Li. Ø mm	S mm	Li. Ø mm	S mm	Li. Ø mm	S mm	Li. Ø mm	S mm	Li. Ø mm
1/8	6	10.2	2.6	5.0	2.0	6.2						
1/4	8	13.5	2.9	7.7	2.3	8.9	2.0	9.5	2.0	9.5	1.8	9.9
3/8	10	17.2	2.9	11.4	2.3	12.6	2.0	13.2	2.0	13.2	1.8	13.6
1/2	15	21.3	3.2	14.9	2.6	16.1	2.3	16.7	2.3	16.7	2.0	17.3
3/4	20	26.9	3.2	20.5	2.6	21.7	2.3	22.3	2.3	22.3	2.3	22.3
1	25	33.7	4.0	25.7	3.2	27.3	2.9	27.9	2.9	27.9	2.6	28.5
1 1/4	32	42.4	4.0	34.4	3.2	36.0	2.9	36.6	2.9	36.6	2.6	37.2
1 1/2	40	48.3	4.0	40.3	3.2	41.9	2.9	42.5	2.9	42.5	2.9	42.5
2	50	60.3	4.5	51.3	3.6	53.1	3.2	53.9	3.2	53.9	2.9	54.5
2 1/2	65	76.1	4.5	67.1	3.6	68.9	3.2	69.7	3.2	69.7	3.2	69.7
3	80	88.9	5.0	80.9	4.0	80.9	3.2	82.5	3.6	81.7	3.2	82.5
4	100	114.3	5.4	103.5	4.5	105.3	3.6	107.1	4.0	106.3	3.6	107.1
5	125	139.7	5.4	128.9	5.0	129.7	4.5	130.7				
6	150	165.1	5.4	154.3	5.0	155.1	4.5	156.1				

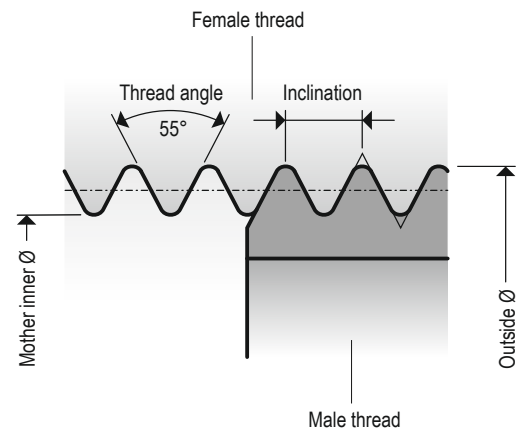
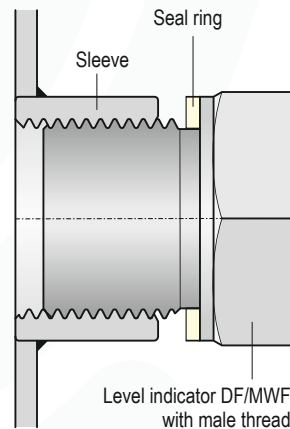
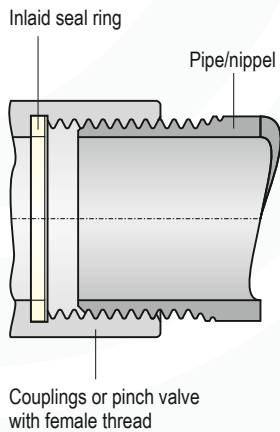
Planning information

Pipe thread DIN EN ISO 228-1

DIN ISO 228-1 (substitution for DIN 259)



Thread G	Outside Ø mm	Mother- inner Ø mm	Core hole Ø mm	Thread turns per inch	Inclination mm
G 1/8	9.73	8.85	8.80	28	0.907
G 1/4	13.16	11.89	11.80	19	1.337
G 3/8	16.66	15.39	15.25	19	1.337
G 1/2	20.95	19.17	19.00	14	1.814
G 3/4	26.44	24.66	24.50	14	1.814
G 1	33.25	30.93	30.75	11	2.309
G 1 1/4	41.91	39.59	39.25	11	2.309
G 1 1/2	47.80	45.48	45.25	11	2.309
G 2	59.61	57.29	57.00	11	2.309
G 2 1/2	75.18	72.86	72.60	11	2.309
G 3	87.88	85.56	85.30	11	2.309
G 3 1/2	100.33	98.01	97.70	11	2.309
G 4	113.03	110.71	110.40	11	2.309
G 4 1/2	125.73	123.41	123.10	11	2.309
G 5	138.43	136.11	135.70	11	2.309
G 6	163.83	161.51	161.20	11	2.309



All couplings and pinch valves supplied by MOLLET are manufactured for cylindric connections with **not** metallically sealed threads.

The same applies to the level indicators DF and MWF.

Tightness is achieved by seal rings.

Tightness can also be achieved e.g. with O-rings or sealant adhesive.

According to measurement charts the threads G acc. to DIN EN ISO 228-1 (substitution for DIN 259) have the same dimensions like the threads R acc. to DIN EN 10226-1 (substitution for DIN 2999). However, the tolerances acc. to DIN EN 10226-1 are for the inner diameter in the lower and for the outside diameter in the upper area.

It is therefore possible that cylindric male threads G acc. to DIN EN ISO 228-1 can not be screwed in parts (sleeves) with female threads R that are manufactured acc. to DIN EN 10226-1.

Planning information

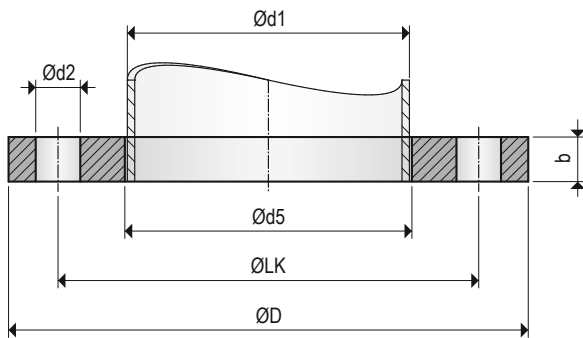
Flanges, plain

DIN EN 1092-1 PN6 (substitution for DIN 2373)



Nominal diameter mm	ØD mm	ØLK mm	Nominal pressure (PN) 6		Quantity	Ød1 mm	b mm
			Ød5 mm	Ød2 mm			
32	120	90	43.1	14	4	42.4	16
40	130	100	49.0	14	4	48.3	16
50	140	110	61.1	14	4	60.3	16
65	160	130	77.1	14	4	76.1	16
80	190	150	90.3	18	4	88.9	18
100	210	170	115.9	18	4	114.3	18
125	240	200	141.6	18	8	139.7	20
150	265	225	170.5	18	8	168.3	20
200	320	280	221.8	18	8	219.1	22
250	375	335	276.2	18	12	273.0	24
300	440	395	327.6	22	12	323.9	24
350	490	445	359.7	22	12	355.6	26
400	540	495	411.0	22	16	406.4	28
500	645	600	513.6	22	20	508.0	30

DIN EN 1092-1 PN10 (substitution for DIN 2376)



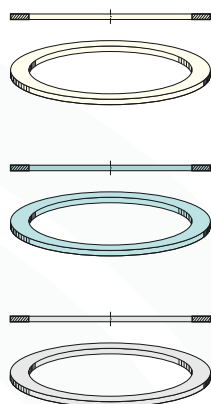
Nominal diameter mm	ØD mm	ØLK mm	Nominal pressure (PN) 10		Quantity	Ød1 mm	b mm
			Ød5 mm	Ød2 mm			
32	140	100	43.1	18	4	42.4	16
40	150	110	49.0	18	4	48.3	16
50	165	125	61.1	18	4	60.3	18
65	185	145	77.1	18	4	76.1	18
80	200	160	90.3	18	8	88.9	20
100	220	180	115.9	18	8	114.3	20
125	250	210	141.6	18	8	139.7	22
150	285	240	170.5	22	8	168.3	22
200	340	295	221.8	22	8	219.1	24
250	395	350	276.2	22	12	273.0	26
300	445	400	327.6	22	12	323.9	26
350	505	460	359.7	22	16	355.6	28
400	565	515	411.0	26	16	406.4	32
500	670	620	513.6	26	20	508.0	38

DIN EN 1092-1 PN16 (substitution for DIN 2376)

Nominal diameter mm	ØD mm	ØLK mm	Nominal pressure (PN) 16		Quantity	Ød1 mm	b mm
			Ød5 mm	Ød2 mm			
32							
...							
200							
250	405	355	276.2	26	12	273.0	29
300	460	410	327.6	26	12	323.9	32
350	520	470	359.7	26	16	355.6	35
400	580	525	411.0	30	16	406.4	38
500	715	650	513.6	33	20	508.0	46

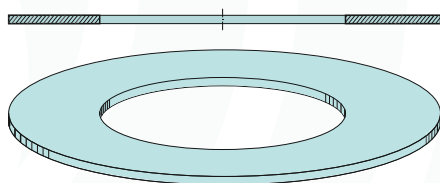
Planning information

DRG thread flat seal rings for male threads



Size	Dimensions (mm)	NBR (white)		Klingsil (green)		1.4571/316Ti	
		Article-no.	up to T °C	Article-no.	up to T °C	Article-no.	up to T °C
A G¾ A G1	26x19x2.0 40x28x3.0	DRG1E0	+80				
A G1¼ A G1¼	49x38x3.0 49x42x2.0	DRG2E0	+80	DRG2E3	+260	DRG2E9	+1000
A G1½ A G1½	54x44x3.0 55x48x2.0	DRG3E0	+80	DRG2E3	+260	DRG3E9	+1000
A G2	68x54x3.0	DRG4E0	+80				
M 30	40x28x3.0	DRG5E0	+80				
M 32	40x28x3.0	DRG6E0	+80				

DRF flange flat seal rings



Size	Dimensions (mm)	Klingsil (green)	
		Article-no.	up to T °C
DN65			
DN80	142x90x2	090-002-DRF-ABF	+350
DN100	162x115x2	115-002-DRF-ABF	+350
DN125			
DN150			

Planning information

Stainless steel

Stainless steels used by MOLLET for devices and couplings

Material number	Krupp brand NIROSTA	Short term	ASTM AISI	UNS number	Applications
1.4301	V2A Supra	X5CrNi18-10	304	S30400	Apparatus and devices for the food, chemical and agricultural sector
1.4306	V2A Supra	NKX2CrNi19-11	304L	S30403	Devices and parts exposed to organic and fruit acids in the food, oil, soap and man-made fiber industry.
1.4310	V2A FH	X10CrNi18-8	301	S30100	Springs for temperatures up to 300 °C, Dutchman-cutter as well as metal sheets with high stability for automotive, food and chemical industry.
1.4401	V4A Supra	X5CrNiMo17-12-2	316	S31600	Parts and apparatus for the chemical, cellulose, colours, oil, soap, textile, food and milk industry as well as for breweries.
1.4404	V4A Supra NK	X2CrNiMo17-12-2	316L	S31603	
1.4408	V4A	GX5CrNiMo19-11-			Apparatus and devices for the food, chemical, medical, pharmaceutical, textile, cellulose, colours, photo, synthetic resin and rubber industry.
1.4571	V4A Extra	X6CrNiMoTi17-12-2	316Ti	S31635	
1.4581	V4A	GX5CrNiMoNb19-11-2			Parts and apparatus for the chemical, colours, synthetic resin and rubber industry.

What kind of materials are used to make stainless steel?

Stainless steel is a corrosion-resistant alloy of iron, chromium and, in some cases, nickel and other metals. The element iron (Fe) is of course the main part and is normally not mentioned in the material descriptions.

Only the characteristics of the relevant alloy elements are mentioned e.g., **Cr** = chromium, **Ni** = nickel, **Mo** = molybdenum and so on.

We see names like **V4A**, **V2A** (from Krupp) or **18/10**. Derived from this, screws made of stainless steel have often the term A2. The numbers 18/10 e.g., on many household-cutlery mean alloy elements chromium 18% and nickel 10% (V2A)

Names like e.g., **Cromargan**, **Remanit** or **Nirosta** are trade names.

All these names are not precise enough for the material descriptions. It is better to use the standardized material numbers.

For example, the material number **1.4301** (V2A or A2).

The digit „1“ before the dot means in this system „steel“. The digit „4“ after the dot means that it is „stainless steel“.

The short term **X5CrNi18-10** for **1.4301** gives information about the chemical composition.

The meaning of the term in detail is: **X5** = carbon content in % **Cr** = chromium **Ni** = nickel **18** = 18 % chromium **10** = 10 % nickel.

Planning information

NBR Acrylic-nitrile rubber

Name	Acrylic-nitrile rubber
Short term	NBR
Trade name	Perbunan®/Hycar, Krynac/Chemigum
Characteristics	
Shore hardness A	20 ... 90
Temperature resistance °C	-40° ... +130°
Tensile elongation approx. in %	450
Abrasion resistance	very good
Rebound resilience	satisfactory
Non-inflammability	unsufficient
Gas impermeability	good
Impact resistance	good
Dielectric properties	satisfactory
Durability	
Ozone, weather and lighth proof	satisfactory
Oil and grease	very good
Petrol / fuel	very good
Water	very good
Steam below 150 °C	unsufficient
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	satisfactory
Concentrated hydrochloric acid	unsufficient

FBM/FKM Fluorine rubber

Name	Fluorine rubber
Short term	FBM/FKM
Trade name	Viton®/Fluorel®
Characteristics	
Shore hardness A	40 ... 90
Temperature resistance °C	-30° ... +200°
Tensile elongation approx. in %	300
Abrasion resistance	good
Rebound resilience	good
Non-inflammability	very good
Gas impermeability	very good
Impact resistance	good
Dielectric properties	good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	very good
Petrol / fuel	very good
Water	good
Steam below 150 °C	satisfactory
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	very good
Concentrated hydrochloric acid	good

FFKM Perfluor rubber

Name	Perfluor rubber
Short term	FFKM
Trade name	Kalrez, Perla
Characteristics	
Shore hardness A	70 ... 80
Temperature resistance °C	-30° ... +316°
Tensile elongation approx. in %	250
Abrasion resistance	good
Rebound resilience	good
Non-inflammability	very good
Gas impermeability	very good
Impact resistance	good
Dielectric properties	good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	very good
Petrol / fuel	very good
Water	very good
Steam below 150 °C	very good
Steam above 150 °C	no indication
Hydrochloric acid with 3 mol/l	very good
Concentrated hydrochloric acid	very good

EPDM Ethylene-propylene rubber

Name	Ethylene-propylene rubber
Short term	EPDM (APTK)
Trade name	Buna AP/Nordel, Keltan/Vistalon
Characteristics	
Shore hardness A	30 – 90
Temperature resistance °C	-30° – +150°
Tensile elongation approx. in %	400
Abrasion resistance	good
Rebound resilience	good
Non-inflammability	unsufficient
Gas impermeability	satisfactory
Impact resistance	good
Dielectric properties	very good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	unsufficient
Petrol / fuel	unsufficient
Water	very good
Steam below 150 °C	very good
Steam above 150 °C	good
Hydrochloric acid with 3 mol/l	very good
Concentrated hydrochloric acid	satisfactory

Planning information

CR Chloroprene rubber

Name	Chloroprene rubber
Short term	CR
Trade name	Neoprene®, Bayprene/Butaclor
Characteristics	
Shore hardness A	30 ... 90
Temperature resistance °C	-30° ... +100°
Tensile elongation approx. in %	400
Abrasion resistance	good
Rebound resilience	good
Non-inflammability	very good
Gas impermeability	good
Impact resistance	good
Dielectric properties	satisfactory
Durability	
Ozone, weather and lighth proof	good
Oil and grease	satisfactory
Petrol / fuel	satisfactory
Water	good
Steam below 150 °C	unsufficient
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	satisfactory
Concentrated hydrochloric acid	unsufficient

MPQ/MPVQ Silicon rubber

Name	Silicon rubber
Short term	MPQ/MPVQ
Trade name	Silopren/Silastic, ICI Silicon-Rubbers
Characteristics	
Shore hardness A	30 – 80
Temperature resistance °C	-50° – +250°
Tensile elongation approx. in %	500
Abrasion resistance	satisfactory
Rebound resilience	good
Non-inflammability	unsufficient
Gas impermeability	unsufficient
Impact resistance	satisfactory
Dielectric properties	very good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	good
Petrol / fuel	unsufficient
Water	good
Steam below 150 °C	satisfactory
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	unsufficient
Concentrated hydrochloric acid	unsufficient

NR/NK Natural rubber

Name	Natural rubber
Short term	NR/NK
Trade name	SMR
Characteristics	
Shore hardness A	30 ... 90
Temperature resistance °C	-30° ... +80°
Tensile elongation approx. in %	550
Abrasion resistance	very good
Rebound resilience	very good
Non-inflammability	unsufficient
Gas impermeability	satisfactory
Impact resistance	very good
Dielectric properties	very good
Durability	
Ozone, weather and lighth proof	unsufficient
Oil and grease	unsufficient
Petrol / fuel	unsufficient
Water	good
Steam below 150 °C	unsufficient
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	unsufficient
Concentrated hydrochloric acid	unsufficient

FVMQ/MFQ Silixon rubber

Name	Fluor-Silixon rubber
Short term	FVMQ/MFQ
Trade name	Wacker/Silikon-Kautschuk, SE, Bensil
Characteristics	
Shore hardness A	40 ... 80
Temperature resistance °C	-55° ... +175°
Tensile elongation approx. in %	400
Abrasion resistance	satisfactory
Rebound resilience	good
Non-inflammability	unsufficient
Gas impermeability	unsufficient
Impact resistance	satisfactory
Dielectric properties	very good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	very good
Petrol / fuel	very good
Water	good
Steam below 150 °C	unsufficient
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	satisfactory
Concentrated hydrochloric acid	satisfactory

Planning information

SBR Styrene butadiene rubber

Name	Styrene butadiene rubber
Short term	SBR
Trade name	Buna/Euoprene/Krylene/Philprene
Characteristics	
Shore hardness A	30 ... 90
Temperature resistance °C	-30° ... +110°
Tensile elongation approx. in %	400
Abrasion resistance	very good
RRebound resilience	good
Non-inflammability	unsufficient
Gas impermeability	satisfactory
Impact resistance	good
Dielectric properties	good
Durability	
Ozone, weather and lighth proof	unsufficient
Oil and grease	unsufficient
Petrol / fuel	unsufficient
Water	very good
Steam below 150 °C	unsufficient
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	satisfactory
Concentrated hydrochloric acid	unsufficient

IIR Butyl rubber

Name	Butyl rubber (isobutene-isoprene rubber)
Short term	IIR
Trade name	Bucar/Polysar-Butyl/Petro-Tex-Butyl
Characteristics	
Shore hardness A	40 ... 90
Temperature resistance °C	-30° ... +130°
Tensile elongation approx. in %	400
Abrasion resistance	satisfactory
Rebound resilience	satisfactory
Non-inflammability	unsufficient
Gas impermeability	very good
Impact resistance	very good
Dielectric properties	very good
Durability	
Ozone, weather and lighth proof	satisfactory
Oil and grease	unsufficient
Petrol / fuel	unsufficient
Water	very good
Steam below 150 °C	good
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	good
Concentrated hydrochloric acid	good

AU/EU Polyurethane

Name	Polyurethane
Short term	AU/EU
Trade name	Vulkollan/Urepan, Desmopan/Adipren
Characteristics	
Shore hardness A	50 ... 98
Shore hardness A	-25° ... +90°
Tensile elongation approx. in %	600
Abrasion resistance	very good
Rebound resilience	very good
Non-inflammability	unsufficient
Gas impermeability	satisfactory
Impact resistance	very good
Dielectric properties	good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	very good
Petrol / fuel	good
Water	unsufficient
Steam below 150 °C	unsufficient
Steam above 150 °C	unsufficient
Hydrochloric acid with 3 mol/l	unsufficient
Concentrated hydrochloric acid	no details

CSM Chlorine-sulfonated polyethylene

Name	Chlorine-sulfonated polyethylene
Short term	CSM
Trade name	HYPALON®, TOSO-CSM®
Characteristics	
Shore hardness A	70 ± 5
Shore hardness A	-30 ... +120 °C
Tensile elongation approx. in %	400
Abrasion resistance	very good
Rebound resilience	very good
Non-inflammability	good
Gas impermeability	good
Impact resistance	very good
Dielectric properties	good
Durability	
Ozone, weather and lighth proof	very good
Oil and grease	satisfactory
Petrol / fuel	good
Water	good
Steam below 150 °C	satisfactory
Steam above 150 °C	satisfactory
Hydrochloric acid with 3 mol/l	satisfactory
Concentrated hydrochloric acid	satisfactory