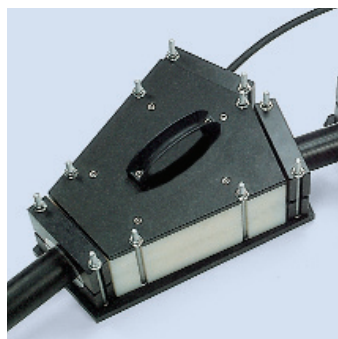
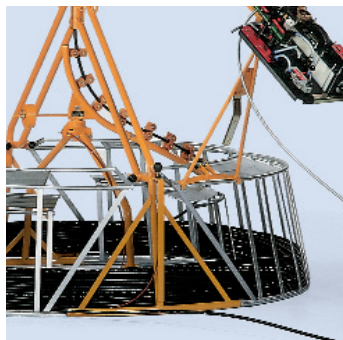


## Fibre optic cable blowing-in devices

410





**CableJet blowing units for cable D 9-19 mm**

**SuperJet blowing units for cable D 14-32 mm**

**Sonic heads for blowing-in thin and soft fibre optic cables**

**Duct cleaning and lubricating sponge**

**Cable crash test tube for limiting the pushing force**

**Metallic hinged duct coupler for coupling two cable ducts**

**FigarO - the cable basket replaces laying figure of 8**

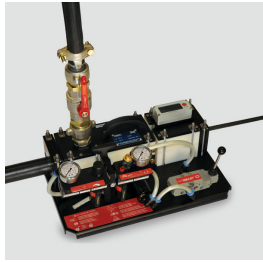
**Compressor for blowing-in conventional fibre optic cables**

**Conduit cutters and burring tools for ducts up to D 70 mm**

**Cable conduit saw for duct-Ø 31-150 mm**

**Cable lubricant for blowing-in fibre optic cables**

**Duct calibration and leakage test units**



## CableJet for FOC D 9-19 mm

CableJet for tension-free blowing-in of fibre optic cables D 9-19 mm. Worldwide thousand fold proven blowing machine. Basic machine without cable and duct inserts. See accessory below.

- Average lengths are 2000 m and more.
- Pneumatic cable drive, easy to control.
- Electronic digital length- and speed measuring device
- For ducts to D 50, compressors of a pressure of 12 bar at 10 m³/min. is necessary.
- For ducts to D 63, compressors of a pressure of 12 bar at 14 m³/min. is necessary.

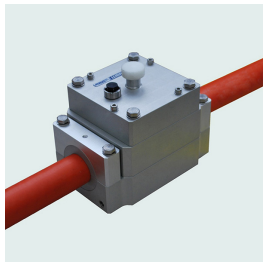
Code	Type	C-D	For D-OD	Air	kg
410100	CJS 19	9-19	28-63	10 m³/12 bar	47,00



## Driving shafts for cable D 6-9 mm

Driving shafts for smaller cables D 6-9 mm, suitable to CableJet.

Code	Type	C-D	kg
41015005	AWS 6-9	6-9	1,40



## Lubricator L24 - automatic device

Lubricator L 24 for automatic continuous greasing of the cable blown by Mini-, Intelli-, Cable- or SuperJet. This lubricator L 24 is especially recommended when blowing bigger cables in ducts 20 - 50 mm. Performance and technical details see below.

- The Lubricator L 24 guarantees an uniform lubrication on the whole length duct length.
- With the Lubricator L 24 the blowing cable lengths can be increased of approx. 20-40 %.
- This bigger Lubricator L 24 is only for use with Mini-, Intelli-, Cable- and SuperJet machines.

Code	Type	C-D	D-OD	kg
423507	L 24	9-24	20-50	5,00



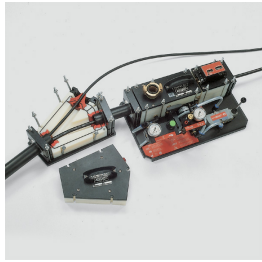
## Accessory for FOC-floating

Accessory for FOC-floating with water for CableJet and SuperJet.

- The CableJet and SuperJet are also able to float-in very long lengths of cables with water.
- Cable lengths of 10 km were floated very successfully.
- The procedure is very simple and big length will certainly be achieved.
- Please ask for our special systems documents.



Code	Type	Suitable to	C-D	D-OD	Press.	kg
275210	REC 15/1W	CableJet	9-19	28-63	4-8 bar	4,80
275213	RES 15/1W	SuperJet	14-32	28-63	4-8 bar	3,45
275216	GMT 600	SuperJet	Lubricant funnel	for all	for all	1,00



## Y-duct connector

Y-duct connector for blowing-in a second or third cable in occupied ducts. Please select for this the corresponding cable and duct inserts. See table below of CableJet or SuperJet.

- Allows to blow-in second or third cable in the same duct.
- Also necessary for blowing of additional subducts in occupied ducts.

Code	Type	Duct inserts	Cable inserts	kg
410220	YK 5050	2x for D-OD 50 incl.	for 2 cables order separately	16,00
41024510	KEY 18	-	for 3rd cable order separately	0,46



## SuperJet for FOC D 12-34 mm

SuperJet for tension-free blowing-in of bigger fibre optic cables and bundles of sub ducts D 7-14 mm each. A very long belt drive of 330 mm secures a correct guide of cables and sub ducts. With digital length and speed meter. Including hydraulic power pack with petrol engine and control instruments. Worldwide thousand fold proven blowing machine. For successful blowing-in of big length, in ducts of D 50 mm a compressor of 12 bar and 10 m³/min. is necessary. Basic machine without belts, cable and duct inserts. See accessory below. Basic equipment consist of the following details:

- Petrol-hydraulic pack with hoses
- Length- and speed meter
- Ball valve 1 1/2" with screw couplings.
- Air pressure hose 1 1/2", length 10 m.
- Compressor of min. 10 m³/12 bar for duct dia. 50x4,6

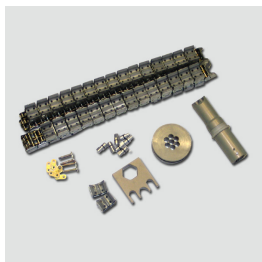
Code	Type	C-D	Subducts	Chain band	Duct-D	kg
410314	SJH 34	14-32	D 7-14	L 330	28-63	125,00



## Creeper chain for cables

Creeper chain with rubber cams for blowing-in cables of D 14-32 mm with the SuperJet. Two are required.

Code	Type	Suitable for	C-D	Required	kg
042500209	PRO 0820	SuperJet	14-32	2	1,60
0425002095	PRS 0821	SuperJet	Chain joint	2	0,02



## Driving chains for sub ducts

Driving chains of aluminium for blowing-in subducts with the SuperJet, combination see table below.

Code	Type	D-OD	Subducts	In D-OD	kg
42107007	KET 7/007	7	7	50 or 40	4,70
42107010	KET 7/010	7	10	50 or 40	4,70
42111005	KET 10/345	10	3/4/5	50 or 40	4,85
42111007	KET 10/007	10	7	50	4,70
42111205	KET 12/345	12	3/4/5	50 or 40	10,20
42111207	KET 12/007	12	7	63	4,70



42111403	KET 14/023	14	2/3	50	5,20
42111404	KET 14/004	14	4	50	11,00
42111410	KET 14/102	14/10	2/2	50	11,00
42111633	KET 16/003	16	3	50	11,00

### Flat rubber chain

Flat rubber chain single incl. chain joint. This chain is mounted on the top to complete the existing chain of 5x7 / 5x10 / 5x12 and 3x16 for further subducts of 2x7 / 3x7 / 2x10 / 2x12 and 2x16 mm.

Code	Type	D-OD	Subducts	In D-OD	kg
042113931	flat chain	see text	see text	50 or 40	1,00

### Cable inserts

Cable inserts suitable to CableJet and SuperJet. Also necessary for the Y-piece to blow-in a second or third cable in one duct. One set of cable sealing for the hole range of cable diameters is included.

Code	Type	C-D	kg
41015009	KEJ 9	6,0- 9,0	0,46
41015011	KEJ 11	9,0-11,0	0,43
41015012	KEJ 12	11,0-12,3	0,44
41015014	KEJ 14	12,3-14,0	0,44
41015015	KEJ 15	14,0-15,5	0,44
41015018	KEJ 18	15,5-18,0	0,45
41015022	KEJ 22	17,5-22,0	0,41
41015024	KEJ 24	22,0-23,5	0,45
41015028	KEJ 28	23,5-28,0	0,41
41015032	KEJ 32	28,0-32,0	0,41

### Cable sealing

Cable sealing for CableJet and SuperJet. These are also useable in the Y-piece for blowing-in of further cables in the same duct.

Code	Type	C-D	To insert	Set of	kg
415107	KDR 07	6,0-6,7	KEJ 9	20 half seals	0,01
415108	KDR 08	6,7-8,5	KEJ 9	10 cpl. seals	0,01
415109	KDR 09	8,5-9,0	KEJ 9	20 half seals	0,01
415110	KDR 10	9,0-10,3	KEJ 11	20 half seals	0,01
415111	KDR 11	10,3-11,0	KEJ 11	20 half seals	0,01
415120	KDR 12	11,0-12,5	KEJ 12	20 half seals	0,01
415140	KDR 14	12,3-14,0	KEJ 14	20 half seals	0,01
415150	KDR 15	14,0-15,5	KEJ 15	20 half seals	0,02
415180	KDR 18/16	15,5-16,8	KEJ 18	20 half seals	0,02
41518017	KDR 18/17	16,8-17,5	KEJ 18	20 half seals	0,02

41518018	KDR 18/18	17,5-18,0	KEJ 18	20 half seals	0,02
415200	KDR 20/18	17,5-18,3	KEJ 22	20 half seals	0,04
41520020	KDR 20/20	18,3-20,4	KEJ 22	20 half seals	0,04
41522022	KDR 22/22	20,4-22,0	KEJ 22	20 half seals	0,04
415230	KDR 24	22,0-23,5	KEJ 24	20 half seals	0,03
415280	KDR 25	23,5-25,0	KEJ 28	20 half seals	0,05
41528026	KDR 28/26	25,0-26,4	KEJ 28	20 half seals	0,12
41528028	KDR 28	26,4-28,0	KEJ 28	20 half seals	0,05
41535030	KDR 32/30	28,0-30,0	KEJ 32	20 half seals	0,12
41535033	KDR 32/32	30,0-32,0	KEJ 32	20 half seals	0,12

## Duct inserts

Duct inserts suitable to CableJet, SuperJet. Also necessary for the Y-piece to blow-in a second or third cable in one duct.

Code	Type	D-OD	kg
41018032	REJ 32	32	1,40
41018040	REJ 40	40	1,40
41018050	REJ 50	50	1,40
41018063	REJ 63	63	1,40

## Cable guiding heads

Cable guiding heads for screwing on the cables for low-friction sliding during cable-blowing. One set of 6 different cable diameters from 8,5 to 20 mm.

Code	Type	For C-D	Head OD	Set of	kg
410270	KFM 82	8,5-20	15-22	6	0,11

## Sonic heads

Sonic heads for successful blowing-in of thin and soft fibre optic cables with the CableJet or the SuperJet for achieving of bigger lengths.

- The sonic head opens and allows to pass 90 % of the cable supporting Jet-stream.
- The pulling force exerting on the cable head is therefore only of some kg.
- This pull as pre-tension is enough to carry soft cable straight on through the duct.

Code	Type	D-OD	D-ID	kg
410600	SKO 40	32+41	26-32	0,48
410620	SKO 50	40+50	32-41	0,59
410640	SKO 63	63	40-51	0,88



## Duct cleaning sponge

Sponge for duct cleaning and pre-lubricating prior to cable blowing

Code	Type	D-OD	D-ID	Cellular	Qty.	kg
275408	RSM 28	32	28	D 45x90	1 pcs.	0,01
275410	RSM 35	40	35	D 55x90	1 pcs.	0,01
275412	RSM 40	50	40	D 65x90	1 pcs.	0,01
275414	RSM 51	63	51	D 78x90	1 pcs.	0,02



## Cable crash test tube

Cable crash test tube transparent with sealing end. For limiting the pushing force of the blowing-in machines. Tests without compressed air. For determination of the cable stiffness up to the crash. Safe packed in reusable plastic duct.

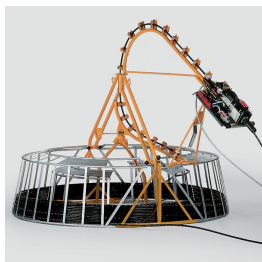
Code	Type	D-OD	D-ID	For C-D	Length	kg
275312	CTR 32/27	32	28	to 15,0	1,65 m	0,80
275315	CTR 40/34	40	34	to 16,0	1,65 m	1,10
275318	CTR 50/42	50	42	to 20,0	1,65 m	1,30
275321	CTR 63/54	63	54	to 25,0	1,65 m	1,70



## Cable duct connecting nipple

Cable duct connecting nipple for ducts, which are cut plain with the manhole wall. This connecting nipple with right- and left-hand thread enables a through-connection to blow-through cables. Afterwards the nipple can be opened lengthwise and be separated. Included are: 1 sickle spanner, 1 allen key and 2 pipe clamps.

Code	Type	Nipple	D-OD	Length	kg
410260	VB 5050	ID 33	50	220	1,60
410255	VB 4040	ID 25	40	220	0,90



## Figaro the cable basket

Figaro. The FOC basket is used if the cable is too long to be blown completely with only one blowing machine. If half of the cable is installed in one direction the remaining cable is pushed into the Figaro with the blowing machine. Out of the Figaro this part of the cable can be blown uncut in the opposite direction to finish the installation.

- To handle the Figaro see suitable trailer below.
- Cable Cap.: 4200 m D 8 / 2700 m D 12 / 2000 m D 14 / 1200 D 18
- The Figaro replaces laying figure of 8 on the ground, is clean and space saving.
- The Figaro is always placed besides the cable drum.

Code	Type	Basket-D	kg
411210	SLK 225	2250	159,00



## Trailer for Figaro

Trailer for the Figaro. After folding down both Figaro halves the cable can be pushed directly into the Figaro on an agreeable and safe height. Under the same condition the cable can afterwards also be blown into the duct. Trailer with alu platform, all side walls can be folded down. Height adjustable drawbar with ball coupling and parking brake.

- On this trailer the Figaro can be replaced from pit to pit.
- The cables stays away from mud on a good working height.

Code	Type	Platform size	Total	Hitch	kg
275800	FAN 440	2300x1520x400	750 kg	75 kg	320,00



## Compressor diesel engine

High powered compressors for blowing-in bigger fibre optic cables. Suitable for CableJet and SuperJet and for duct ID up to 41 mm. Mounted on single axle trailer with height adjustable overrun drawbar. Incl. Diesel-Oxidation filter and particle filter. Emission standard V and US-standard EPA Tier 4. Equipped with Telematics 36 @ Mobilair.

- Deutz Diesel-engine, 105 kW. Compressor dimension: 5180x2130x1790
- Flow rate 9,7 m³ at 14 bar, 10,70 m³, at 12 bar, 11,5 m³ at 7,0 bar working pressure
- With integrated after cooler and water separator.
- Air discharge valves: 1 x G 1 1/2" and 3 x G 3/4"

Code	Type	Air	Press.	D-ID	C-D	kg
960127	M 125	9,7-11,5 m³/min.	14-7 bar, s. above	to 41	to 30	2.088,00



## Pressure release valve

Pressure release valve with sound absorber for compressors. Max. pressure 15 bar.

Code	Type	Press.	For compressor	kg
096010038	EVK 34	15 bar	MK 17, M 27, M 59 and M 125	1,30



## Pressure release valve

Pressure release valve with sound absorber for compressors. Max. pressure 15 bar.

Code	Type	Press.	For compressor	kg
275220	EVK 15	15 bar	M 125	2,70



## Compressed air hose

Air hose, special flat, for blowing-in fibre optic cables and subducts. Complete with screw fittings.

Code	Type	Size	Working	Bursting	Length	kg
410420	KFS 15/1,5"	1 1/2"	20 bar	60 bar	15 m	9,12
231660	KFS 15/1"	1"	15 bar	45 bar	15 m	4,70
23165910	KFS 10/1"	1"	15 bar	45 bar	10 m	3,50



## Conduit cutters

Conduit cutters for plain cuts.

Code	Type	D-OD	Length	kg
273171	MRS 43	to 42	215	0,45
273172	MRS 50	to 50	265	0,60
273173	MRS 63	to 63	285	0,70
273174	MRS 75	to 75	485	1,60



## Burring tools

Burring tools for in- and outside of plastic conduits.

Paring knife MSM 40, for separating multiple conduits.

Code	Type	D-OD	Burring	Mat.	kg
273185	MRA 63	20-63	only extern	Poly.	0,25
273180	MRE 50	28-50	ext. /intern	Alu	0,43
273200	MSM 40	Paring knife	---	Steel	0,50

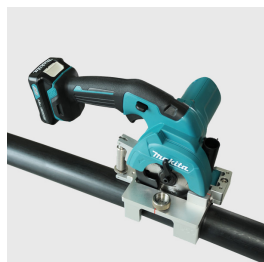


## Conduit and cable slitter

Conduit slitter for lengthwise and circumferential slitting of plastic conduits and cable covers. Complete reinforced steel version. In case 195x75x45 mm.

Code	Type	To wall thickn.	---	kg
255905	KMS 6	6	195x75x45	0,35
255910	ERM 6	Spare knife	---	0,03





### Cable conduit saw

This cable conduit saw SRS 6.1 is a further development of the proven SRS 6. The saw is suitable for cutting occupied and unoccupied cable conduits without damaging internal cables or subducts. The saw is suitable for conduits at an outer diameter of 32-150 mm and at a max. wall thickness up to 6 mm. The saw can precisely cut lengthwise and crosswise and can also precisely cut windows into the cable conduit. Especially for long cuts on the cable conduits which are necessary for cable line redirections the great benefits of this saw pay off.

The cutting depth can be precisely adjusted to a 1/10 of a millimetre by an adjustment mechanism thus the cables inside the cable conduit are well-protected. The cutting depth has always to be set 0,2 mm less than the conduits wall thickness. The remaining very thin plastic membrane will be removed by a lifter tool thus the cable is also protected during this final step.

The conduit guiding plates allow a high safety at work as well as accurate cuts. The guiding plates are available for the below mentioned conduit-diameters. The cordless saw is handy and small in order to be fit for application also in narrow working conditions its weight is below 2 kg. Included in delivery are the following parts:

- Accu-saw with high-quality blade hard metal equipped and 3 accus with 1 charger
- Precise pre-adjustment of the cutting depth, 1/10 mm accurate sliding calliper.
- Lifter for the window-cutting rest
- Packed and delivered in robust box, 445x355x255, weight app. 6,5 kg
- Only approx. 1,9 kg of weight for comfortable application

Code	Type	Device	For D-OD	kg
273212	SRS 6.1	Saw as above	32-150	6,50
273228	RFP 32	Guide plate	32	0,35
273230	RFP 40	Guide plate	40	0,32
273232	RFP 50	Guide plate	50	0,26
273234	RFP 63	Guide plate	63	0,26
273237	RFP 64+	Guide plate	64-150	0,20
273222	ESB 6	Spare blade	---	0,03



### Lubricant for FOC

Jettinglube lubricant for blowing-in fibre optic cables. Excellent lubricating effect. Adheres to the duct wall and leaves the cable nearly dry, an advantage for over blowing and working in cascades with further blowing machines. Consumption approx. 0,5 l per 1000 m at duct-ID 40 mm. For other duct-ID analogue

For lubrication unique and ultimate classification, Water pollution class - non-hazardous, acc. to VCI-Conception. Safety data sheets are available.

Code	Type	Pack. drums	kg
234960	CJL 1032	1 bottle 0,95 l	1,00
234965	CJL 1032	12 bottles 0,95 l	12,00
234961	CJL 378	1 bottle 3,80 l	4,00
234970	CJL 378	4 bottles 3,80 l	16,00



## Lubricant liquid

Cable lubricant Softenol, liquid, for blowing-in and for pulling-in fibre optic cables.

For lubrication unique and ultimate classification, Water pollution class - non-hazardous, acc. to VCI-Conception. Safety data sheets are available.

Code	Type	Pack. drums	kg
235800	SOF 05	1 canister 5 l	5,60
235810	SOF 10	1 canister 10 l	11,00
235830	SOF 25	1 canister 25 l	26,50
235890	SOF 190	1 barrel 190 l	200,00



## Duct cleaning sponge

Sponge for duct cleaning and pre-lubricating prior to cable blowing

Code	Type	D-OD	D-ID	Cellular	Qty.	kg
275408	RSM 28	32	28	D 45x90	1 pcs.	0,01
275410	RSM 35	40	35	D 55x90	1 pcs.	0,01
275412	RSM 40	50	40	D 65x90	1 pcs.	0,01
275414	RSM 51	63	51	D 78x90	1 pcs.	0,02



## High pressure test

The new pressure test device combines three test methods in one electronic device. General test rules? individual selectable acc. requirements from the customer - The requirement from Deutsche Telekom acc. ?ZTV-TKNETZ 40? - The low-pressure test acc. EN 1610:2015 as well as worksheet DWA-A-139:2009

The high-pressure test is presently the most frequent test method in the range of pressure tests for protective ducts. This test method will be performed at thick-walled protective ducts and subducts (micro ducts). With regards to the protective ducts, ducts with OD 50/40/32 mm are most frequently used application. For subducts a wider range of ducts can be tested from 7x1,5 until 20x2,5 mm. The high-pressure test distinguish between two different targets:

- Verification of optimal blowing-in performance, which is guaranteed only by a pressure-tight duct system (short-term target)
- Assurance of pressure-tight duct, the joints and connectors against water intrusion and the subsequent intrusion of soiling with sand. This results in incrustations, which causes problems during the blowing-in process and possibly later at blowing-out of cables (long-term target)

Code	Type	Explanation	kg
231700	High pressure	See the following devices	0,00



## High and low air pressure testing devices

The DPG 17U Universal pressure test device for test of cable ducts with regards to protective ducts and subducts working in the range of 0-7 bar. The operation is made by a 7" colour-graphic-touch display. The new device support the user through a simple and menu-driven operation. With the help of a matrix (table) three different test methods can be selected. Those are ?General test rules? individual selectable acc. requirements from the customer, the requirement from Deutsche Telekom acc. ?ZTV-TKNETZ 40? and the low-pressure test acc. ?EN 1610:2015?. This results in a maximum support for the user.

The result of the pressure test is summarized in a clear test protocol with three core areas. The test protocol will be stored on the device and can be loaded by a USB-interface to a customary PC. ?

The left shown 1. protocol shows a passed test ?Test criteria fulfilled? ?

The left shown 2. protocol shows a failed test ?Test criteria not fulfilled?

- Upper area: General data like: Contracting company with name of operator, construction site, duct, temperature, times, measurement data with calibration status
- Middle area: Result of the pressure test through colour-marked message: "Test criteria fulfilled" or "Test criteria not fulfilled"
- Lower area: Graph with the two phases settling time and main test

Code	Type	Designation	Press.	Application	kg
231740	DPG 17U	Universal pressure test device	0-7 bar	Cable conduits	6,40

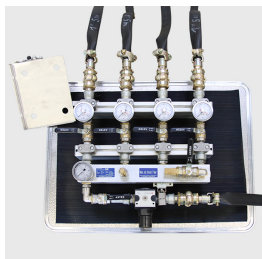


## High air pressure testing NE2 and NE3

Pressure test distribution units for high-pressure tests of 1 duct OD 7 to 110 mm for protective ducts and subducts (micro ducts).

With regards to the protective ducts the 50x4.6 duct is the most frequently used application. For subducts a wider range of ducts can be tested from 7x1.5 until 20x2.5 mm. For the connection of the ducts the right accessories have to be used to perform the test.

Code	Type	Designation	Port	Press.	kg
23163007	DPV 1	Pressure test distribution unit	1	0-10 bar	11,30

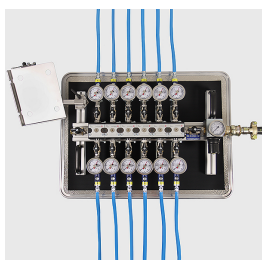


## High air pressure testing NE2 and NE3

Pressure test distribution units for high-pressure tests of ducts OD 20 to 110 mm, for 4 protective ducts or 4 subducts (micro ducts).

With regards to the protective ducts the 50x4.6 duct is the most frequently used application. For subducts the dimension 20x2.5 mm can be tested. For the connection of the ducts the right accessories have to be used to perform the test.

Code	Type	Designation	Port	Press.	kg
2316293	DPV 4	Pressure test distribution unit	4	0-10 bar	43,00

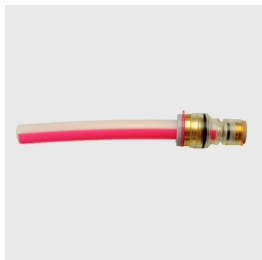


## High air pressure testing NE3

Pressure test distribution units for high-pressure tests of 1-12 subducts (micro ducts).

A wider range of subducts can be tested from 7x1.5 until 20x2.5 mm. For the connection of the ducts the right accessories have to be used to perform the test.

Code	Type	Designation	Port	Press.	kg
231680	DPV 12	Pressure test distribution unit	12	0-7 bar	52,00



## Reducing coupling for high pressure test

Reducing coupling D 10-7, with duct 10x2/100, for D-OD 7 mm, for coupling subduct OD 7 mm with pressure test distribution units DPV 12, necessary to order 275750 DAK 10.

Code	Type	D-OD	Press.	kg
231686	AKR 07	7 mm	0-7 bar	0,02



## Air connectors for calibration sets

Air connectors for subduct calibration sets and for high pressure test units.

Code	Type	D-OD	Press.	kg
275750	DAK 10	10 mm	0-7 bar	0,39
275752	DAK 12	12 mm	0-7 bar	0,41
275754	DAK 14	14 mm	0-7 bar	0,40
275756	DAK 16	16 mm	0-7 bar	0,40



## Conduit plug for duct-OD

Conduit plug for fixing on duct-OD with hose safety coupling applicable for duct calibration, duct pressure tests, duct cleaning etc.

Code	Type	D-OD	Press.	kg
2316512	KRA 20	20 mm	0-7 bar	0,40
23165140	KRA 25	25 mm	0-7 bar	0,46



## Connection coupling

Connection coupling for subducts, made of steel, plug-in type, for distribution device DPV 12

Code	Type	For subduct	To device	Max. Press.	kg
231690	AKS 10	D 10 mm	DPV 12	0-7 bar	0,13
231691	AKS 12	D 12 mm	DPV 13	0-7 bar	0,13
231692	AKS 14	D 14 mm	DPV 14	0-7 bar	0,14
231693	AKS 16	D 16 mm	DPV 15	0-7 bar	0,15
231694	AKS 20	D 20 mm	DPV 16	0-7 bar	0,21



## Duct plug

Duct plug of plastic , 0-7 bar, for subducts D 5-20 mm

Code	Type	For subduct	Max. Press.	kg
272552	ESM 05	D 5 mm	0-7 bar	0,03
272556	ESM 07	D 7 mm	0-7 bar	0,01
272560	ESM 10	D 10 mm	0-7 bar	0,01

272562	ESM 12	D 12 mm	0-7 bar	0,02
272564	ESM 14	D 14 mm	0-7 bar	0,03
272568	ESM 16	D 16 mm	0-7 bar	0,02
272572	ESM 20	D 20 mm	0-7 bar	0,02

### Test manometer for conduits

Testing manometer 10 bar, as end section of cable conduits, for high pressure tests, with safety coupling 42 mm. For air distribution devices DPV 1 + DPV 4. Max. air pressure 7 bar. To apply with conduit plugs KRA 20-110.

Code	Type	For	Together with	Max. Press.	kg
231633	PMK 10	DPV 1+DPV 4	KRA 20-110	0-7 bar	0,70

### Test manometer for subducts

Testing manometer 10 bar, as end section of subducts for high pressure tests, with safety coupling NW 7,4. For air distribution devices DPV 12. Max. air pressure 7 bar. To apply with conduit plugs AKS 10-20.

Code	Type	For	Together with	Max. Press.	kg
231696	PME 10	DPV 12	AKS 10-20	0-7 bar	0,41

### Case for accessory

Case for accessory of high pressure test devices, without parts, with 12 shelves as following:

- 10 cases each 132x82x105 mm
- 1 case of 168x131x105 mm
- 1 case of 286x168x105 mm

Code	Type	Dimension	kg
231698	KZD 6040	600x400x155 mm	4,35

### Duct calibration set

Conduit calibration and leakage-test unit. Calibration and leakage-test before starting the cable blowing-in procedure is the safest guarantee for successful installation of fibre optic cables. Unit consisting of:

- Compressed air regulator with adjustable tripod.
- 5 m high pressure hose, calibre D 35, transmitter, for duct-D 50x4,6.
- All other diam. of calibres are available, please see extensions below.
- With conduit plug and catch box for the piston.
- With electronic detector 33 kHz . Compl. set in alu-case 780x380x330.
- Max. pressure setting 2-3 bar.

Code	Type	D-ID	kg
231601	RKV 40	40-41 mm	27,00





## Calibre extension set

Supplementary extension set for calibration and leakage test unit.

Code	Type	D-ID	kg
231602	RKVE 33	33-34 mm	2,60
231603	RKVE 27	27-28 mm	2,00



## Calibre housings

Calibre housings of polyamide with sleeve rings, without transmitter. Calibre length 145 mm, total length 250 mm

Code	Type	Calibre D/L/total	Press.	D-ID	kg
231644	MKV 45	45/145/250	2-3 bar	51-52	0,45
231646	MKV 35	35/145/250	2-3 bar	40-41	0,36
2316475	MKV 28	28/145/250	2-3 bar	33-34	0,29
231648	MKV 25	25/145/250	2-3 bar	27-28	0,32



## Miniature transmitter D 18 mm

Miniature transmitter D 18x88 mm, incl. battery, suitable for all a. m. calibres.

Code	Type	D/L	Frequ.	Thread	Depth	Cap.	kg
231621	SKS 18N	18/88	33 kHz	M 10	8,0 m	20 h	0,23
097300307	Spare-	Battery	3,6V	--	--	20h	0,01



## Piston for loosening cables

Pistons for loosening old cables in ducts before blowing or pulling them out.

Code	Type	D-OD	D-ID	C-D	kg
275230	LKO 40	40	33-35	10-21	0,10
275232	LKO 50	50	40-42	10-21	0,10



## Conduit plug for duct-OD

Conduit plug for fixing on duct-OD with hose safety coupling applicable for duct calibration, duct pressure tests, duct cleaning etc.

Code	Type	D-OD	Press.	kg
2316513	KRA 32	32	0-7 bar	0,50
231651	KRA 40	40	0-7 bar	0,84
231650	KRA 50	50	0-7 bar	0,90
231649	KRA 63	63	0-7 bar	1,00
2316541	KRA 110	110	0-7 bar	3,20



## Sealing plug

Conduit sealing plug applicable for duct pressure tests.

Code	Type	D-OD	Press.	kg
273569	ENSA 20	20	0-7 bar	0,07
273572	ENSA 32	32	0-7 bar	0,10
273575	ENSA 40	40	0-7 bar	0,23
273580	ENSA 50	50	0-7 bar	0,29
273585	ENSA 63	63	0-7 bar	0,40
273586	ENSA 110	110	0-7 bar	1,93



## Shut-off bladder Mini

Shut-off bladders to lock off the pipeline to be tested. Shut-off bladders are used on the opposite side of the test location. The short dimensions of the Mini version allow space-saving installation of pipe bends also.

Code	Type	For pipe-ID	Cyl.-D	Cyl.-L	Total-L	kg
231768	SBM 7/10	70-100	68	130	175	0,40
231770	SBM 8/15	80-150	72	120	170	0,40
231772	SBM 12/20	125-200	115	150	195	0,80

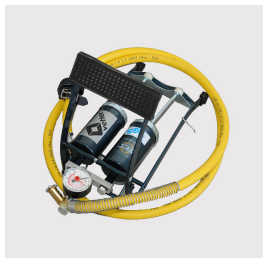


## Test bladder Mini

Test bladders Mini for testing and shutting off pipes for low pressure testing.

Air coupling (brass) standard for bladder extension. Air coupling (chromed) special CE-standard 10.4 mm, for inflating the duct.

Code	Type	For pipe-ID	Cyl.-D	Cyl.-L	Total-L	kg
231776	PBM 4/07	40-70	38	155	215	0,40
231778	PBM 7/10	70-100	68	190	340	1,10
231780	PBM 10/15	100-150	90	150	300	1,33
231782	PBM 15/20	150-200	145	195	345	2,83



## Foot pump with double stroke

Foot pump with double stroke and safety valve 2.5 bar to inflate SBM shut-off bladders and PBM test bladders. The use of a second foot pump for the second pipe end saves considerable installation time.

Code	Type	Press.	kg
231786	FP 2.5	2,5 bar	2,54