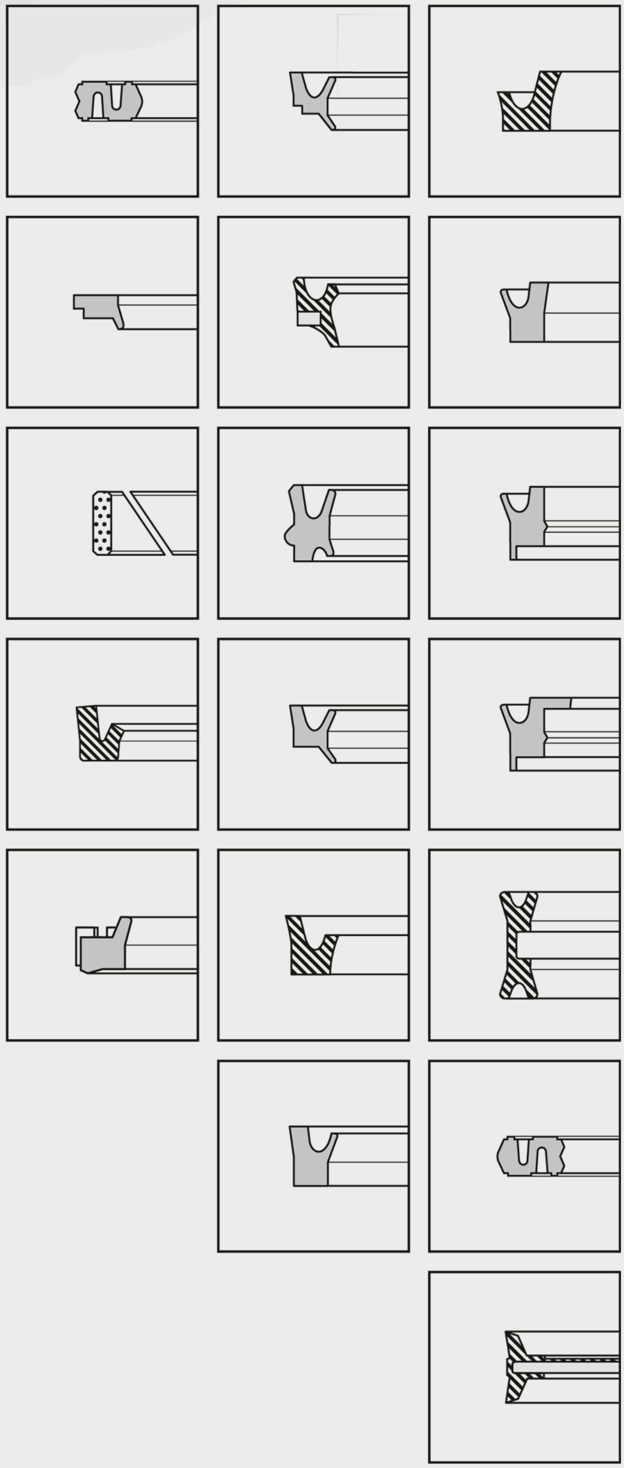
PDT Dichtungstechnik GmbH

Pneumatic seals



Katalog Stand 2012

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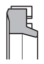
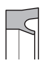
PNEUMATIC SEALS

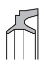
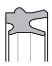
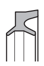
CUSHIONING SEALS

Profile	Référence	Pressure ≤ (bar)	Temperature (°C)	Speed (m/s)	Material	Dimensions (mm)	mm	inch	Fluids **	**Page**
	10CIM	20	-30 +90	1	PU	6 ... 78	●		①⑦	**5**

ROD SEALS

Profile	Référence	Pressure ≤ (bar)	Temperature (°C)	Speed (m/s)	Material	Dimensions (mm)	mm	inch	Fluids **	**Page**
	10DDI 10DDIM	80	-30 +110	0,5	NBR	5 ... 2500	●	●	①②③④⑦	**6** **7**
	10DDIM.../C	80	-30 +110	0,5	NBR	5 ... 2500	●		①②③④⑦	**7**
	11DDIM.../C FPM	80	-20 +200	0,5	FPM	5 ... 2500	●		①②③④⑤⑥⑦	**8**
	10DDIM.../P	80	-30 +90	1	PU	5 ... 2500	●		①⑦	**9**
	10RZR		-30 +90	1	PU	6 ... 50	●		①⑦	**10**

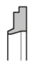
ROD SEALS / WIPERS

Profile	Référence	Pressure ≤ (bar)	Temperature (°C)	Speed (m/s)	Material	Dimensions (mm)	mm	inch	Fluids **	**Page**
	10DUP	20	-30 +90	1	PU	5 ... 2500	●		①⑦	**11**
	10NPSL	10	-30 +110	1	NBR	12 ... 50	●		①②③④⑦	**12**
	10NPSL-P	20	-30 +90	1	PU	12 ... 50	●		①⑦	**13**
	10UWP	20	-30 +90	1	PU	5 ... 2500	●		①⑦	**14**

PISTON SEALS

Profile	Référence	Pressure ≤ (bar)	Temperature (°C)	Speed (m/s)	Material	Dimensions (mm)	mm	inch	Fluids ✱✱	Page
	10DDE 10DDEM	80	-30 +110	0,5	NBR	5 ... 2500	●	●	①②③④⑦	**15** **16**
	10DDEM.../C	80	-30 +110	0,5	NBR	5 ... 2500	●		①②③④⑦	**16**
	11DDEM.../C FPM	80	-20 +200	0,5	FPM	5 ... 2500	●		①②③④⑤⑥⑦	**17**
	10DDEM.../P	20	-30 +90	1	PU	5 ... 2500	●		①⑦	**18**
	10MPA	20	-30 +90	1	PU	8 ... 25	●		①⑦	**19**
	10MPB	20	-30 +90	1	PU	32 ... 100	●		①⑦	**20**
	10MPZ	16	-30 +80	1	NBR	16 ... 160	●		①②③④⑦	**21**
	10PKK		-30 +80	1	NBR	40 ... 160	●		①②③④⑦	**22**
	10RZP	20	-30 +90	1	PU	12 ... 80	●		①⑦	**23**
	10TDOP	10	-30 +110	1	NBR	6 ... 50	●		①②③④⑦	**24**

WIPERS

Profile	Référence	Pressure ≤ (bar)	Temperature (°C)	Speed (m/s)	Material	Dimensions (mm)	mm	inch	Fluids ✱✱	Page
	10WRP	-	-30 +90	1	PU	5 ... 2500	●		①⑦	**25**

WEAR RINGS

Profile	Référence	Pressure ≤ (bar)	Temperature (°C)	Speed (m/s)	Material	Dimensions (mm)	mm	inch	Fluids ✱✱	Page
	10EDP	-	-40 +110	1	POM	5 ... 500	●		①②③④⑦	**26**
	10IDP	-	-40 +110	1	POM	5 ... 500	●		①②③④⑦	**27**

✱✱ FLUIDS : ① Mineral oils - ② HFA fluids - ③ HFB fluids - ④ HFC fluids - ⑤ HFD fluids - ⑥ Steam - ⑦ Air

The information stated is based on the knowledge obtained through a long experience in the manufacturing and application of seals. However, **unknown factors in the application of seals** can considerably change the conditions which **may cause the above information to be invalid**.

Every care has been taken to ensure the accuracy of the information contained in this catalogue but **no liability can be accepted for any errors or omissions**.

The **pressure**, **temperature** and **speed** of moving values in this catalogue are maximum values **which can never be used simultaneously**. The maximum pressure allowed by the seal will depend on temperature and **gap dimension «e».**

We reserved the right to make design or information modifications **without preliminary announcement**.

The information contained in the previous editions become invalid with the publication of this catalogue.

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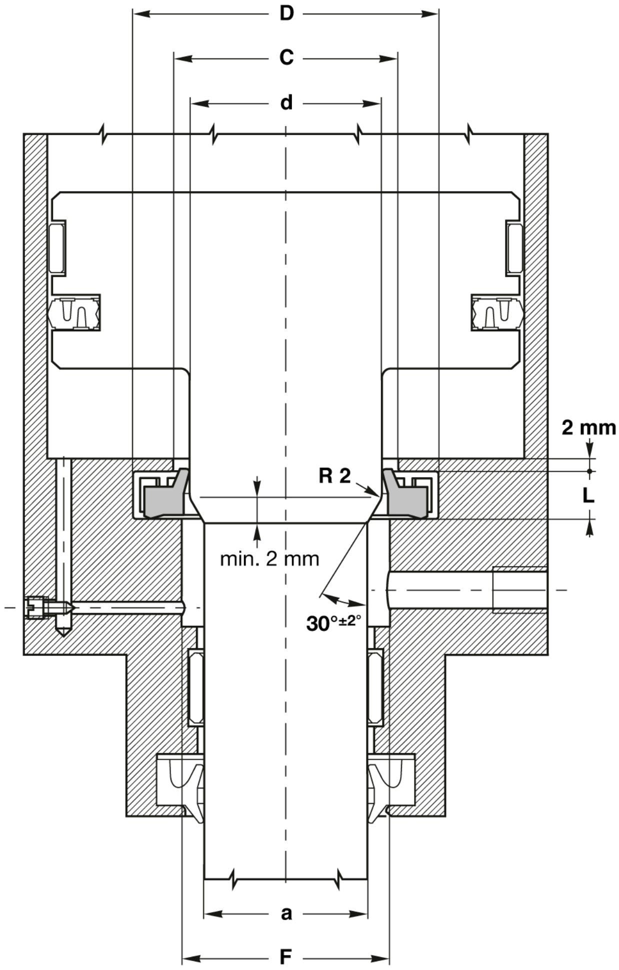
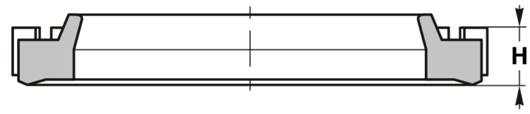




Operating conditions

Pressure	up to 20 bar
Temperature	-40°C to +110°C
Speed	1 m/s
Fluids	air with or without lubrication

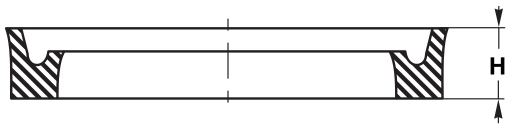
Material

Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 93 Sh A

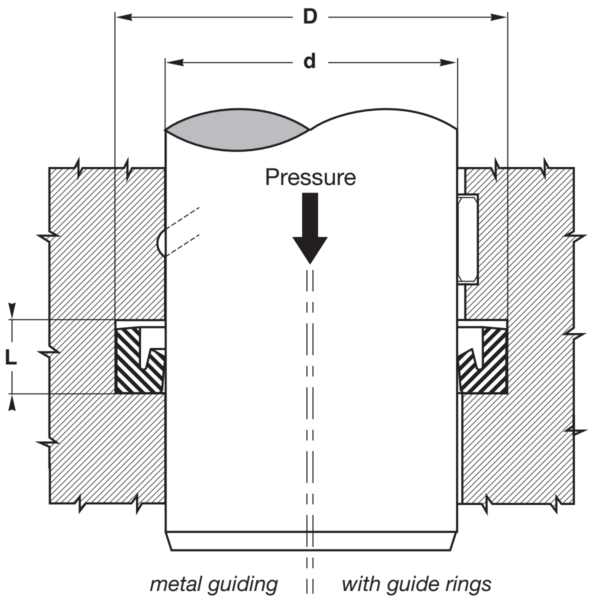
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d h10	D H11	C H11	L $^{+0,1}_{-0,1}$	a h11
10CIM 6	6,00	10,00	8,00	3,70	4,50
10CIM 8	8,00	11,60	10,00	3,30	7,00
10CIM 9	9,50	15,00	12,00	4,50	8,00
10CIM 10	10,00	18,00	15,00	7,00	8,00
10CIM 12	12,00	18,00	15,50	4,80	10,00
10CIM 12/1	12,00	20,00	17,00	7,00	10,00
10CIM 14	14,00	22,00	19,00	7,00	12,00
10CIM 16	16,00	22,00	21,00	7,00	14,00
10CIM 16/1	16,00	24,00	21,00	7,00	14,00
10CIM 18	18,00	26,00	23,00	7,00	16,00
10CIM 20	20,00	28,00	24,00	7,00	17,50
10CIM 22	22,00	30,00	26,00	7,00	19,50
10CIM 25	25,00	33,00	29,00	7,00	22,50
10CIM 28	28,00	36,00	32,00	7,00	25,50
10CIM 30	30,00	40,00	35,00	7,00	27,50
10CIM 32	32,00	42,00	37,00	7,00	29,00
10CIM 36	36,00	46,00	41,00	7,00	33,00
10CIM 40	40,00	50,00	45,00	7,00	37,00
10CIM 50	50,00	60,00	55,00	7,00	47,00
10CIM 57	57,00	74,00	65,00	12,50	54,00
10CIM 70	70,00	87,00	78,00	12,50	66,00
10CIM 78	78,00	95,00	86,00	12,50	74,00



10DDI inch



Operating conditions

Pressure	up to 80 bar
Temperature	-30°C to +110°C
Speed	0,5 m/s
Fluids	air with lubrication, mineral oils or grease

Material

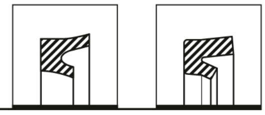
Standard	NBR 90 Sh A

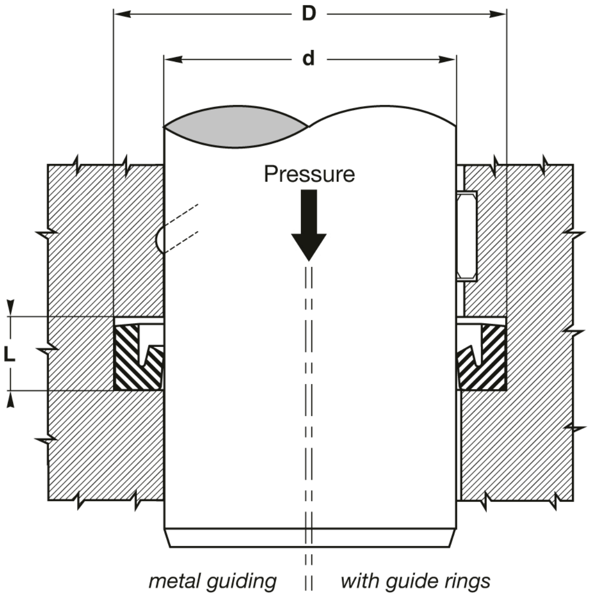
Assembly

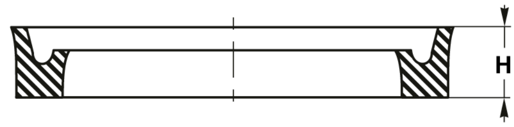
Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d f9	D H10	$L^{+0,2}_{0}$	H
10DDI 018	4,76	11,11	5,50	3,96
10DDI 031	7,93	14,28	5,50	3,96
10DDI 037	9,52	16,50	5,50	3,96
10DDI 050	12,70	21,00	7,00	5,10
10DDI 062	15,87	22,22	6,00	4,76
10DDI 068	17,46	23,81	6,00	4,60
10DDI 075	19,05	25,40	6,00	4,76
10DDI 081	20,63	28,58	6,00	4,76
10DDI 087	22,22	31,75	6,00	4,76
10DDI 093	23,81	36,51	8,00	6,35
10DDI 100	25,40	38,10	8,00	6,35
10DDI 106	26,99	36,51	8,00	6,35
10DDI 112	28,58	41,28	9,50	7,93
10DDI 125	31,75	44,45	8,00	6,35
10DDI 137	34,93	50,80	9,50	7,93
10DDI 150	38,10	50,80	11,00	9,52
10DDI 156	39,69	55,96	11,00	9,52
10DDI 162	41,28	50,80	7,00	5,50
10DDI 175	44,45	57,15	9,50	7,93
10DDI 187	47,63	63,50	11,00	9,52
10DDI 200	50,80	73,03	12,50	11,11

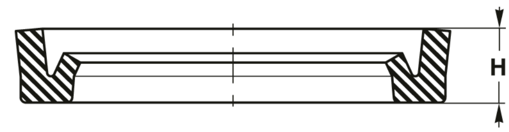
Item code	d f9	D H10	$L^{+0,2}_{0}$	H
10DDI 212	53,98	69,85	11,00	9,52
10DDI 225	57,15	69,85	9,50	7,93
10DDI 237	60,33	76,20	9,50	7,93
10DDI 250	63,50	76,20	9,50	7,93
10DDI 275	69,85	90,90	11,00	9,52
10DDI 300	76,20	88,90	11,00	9,52
10DDI 312	79,38	98,43	11,00	9,52
10DDI 325	82,55	95,25	9,50	7,93
10DDI 337	85,73	98,43	11,00	9,52
10DDI 350	88,90	101,60	11,00	9,52
10DDI 375	95,25	111,10	11,00	9,52
10DDI 400	101,60	111,10	7,00	5,75
10DDI 425	107,95	127,00	11,00	9,52
10DDI 450	114,30	146,05	14,00	12,70
10DDI 475	120,65	136,50	8,50	7,14
10DDI 500	127,00	146,05	14,00	12,70
10DDI 825	209,55	228,60	14,00	12,70







10DDIM metric



10DDIM.../C

Operating conditions

Pressure	up to 80 bar
Temperature	-30°C to +110°C
Speed	0,5 m/s
Fluids	air with lubrication, mineral oils or grease

Material

10 DDIM	NBR 90 Sh A
10 DDIM.../C	NBR 75 Sh A

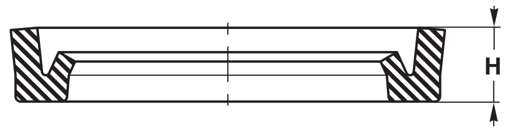
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d_{f9}	D_{H10}	$L^{+0,2}_{0}$	H
10DDIM 0409/C	4,00	9,00	4,00	3,50
10DDIM 0410/C	4,00	10,00	4,70	4,20
10DDIM 0610/C	6,00	10,00	3,50	3,00
10DDIM 0612	6,00	12,00	4,50	4,00
10DDIM 0814	8,00	14,00	4,50	4,00
10DDIM 0814/C	8,00	14,00	4,50	4,00
10DDIM 0816	8,00	16,00	6,00	5,50
10DDIM 0914/C	9,00	14,00	4,00	3,50
10DDIM 1013/C	10,00	13,60	2,70	2,30
10DDIM 1015/C	10,00	15,00	4,00	3,50
10DDIM 1016/C	10,00	16,00	5,00	4,50
10DDIM 1018	10,00	18,00	6,00	5,50
10DDIM 1218/C	12,00	18,50	5,00	4,50
10DDIM 1220	12,00	20,00	6,00	5,50
10DDIM 1422	14,00	22,00	6,00	5,50
10DDIM 1622/C	16,00	22,50	5,00	4,50
10DDIM 1624	16,00	24,00	6,00	5,50
10DDIM 1624/C	16,00	24,00	6,00	5,50
10DDIM 1825	18,00	25,00	5,00	4,50
10DDIM 1826	18,00	26,00	6,00	5,50
10DDIM 1925/C	19,00	25,00	5,50	5,00
10DDIM 2028	20,00	28,00	6,00	5,50
10DDIM 2230	22,00	30,00	6,00	5,50
10DDIM 2535	25,00	35,00	7,50	7,00
10DDIM 2836	28,00	36,00	6,00	5,50
10DDIM 2838	28,00	38,00	7,50	7,00
10DDIM 3040/C	30,00	40,00	7,50	7,00

Item code	d_{f9}	D_{H10}	$L^{+0,2}_{0}$	H
10DDIM 3242	32,00	42,00	7,50	7,00
10DDIM 3646	36,00	46,00	7,50	7,00
10DDIM 4050	40,00	50,00	7,50	7,00
10DDIM 4555	45,00	55,00	7,50	7,00
10DDIM 5060	50,00	60,00	7,50	7,00
10DDIM 5668	56,00	68,00	7,50	7,00
10DDIM 5668/1	56,00	68,00	9,50	8,50
10DDIM 6072	60,00	72,00	9,50	8,50
10DDIM 6375	63,00	75,00	9,50	8,50
10DDIM 6577	65,00	77,00	9,50	8,50
10DDIM 7082	70,00	82,00	9,50	8,50
10DDIM 8092	80,00	92,00	9,50	8,50
10DDIM 90102	90,00	102,00	9,50	8,50
10DDIM 95107/C	95,00	107,00	9,50	8,50
10DDIM 100112	100,00	112,00	9,50	8,50
10DDIM 100115	100,00	115,00	11,00	10,00
10DDIM 110130	110,00	130,00	15,00	14,00
10DDIM 125145	125,00	145,00	15,00	14,00
10DDIM 130145/C	130,00	145,00	11,00	10,00
10DDIM 140160	140,00	160,00	15,00	14,00
10DDIM 160180	160,00	180,00	15,00	14,00
10DDIM 180200	180,00	200,00	15,00	14,00

Rod seals



11DDIM.../C FPM

Operating conditions

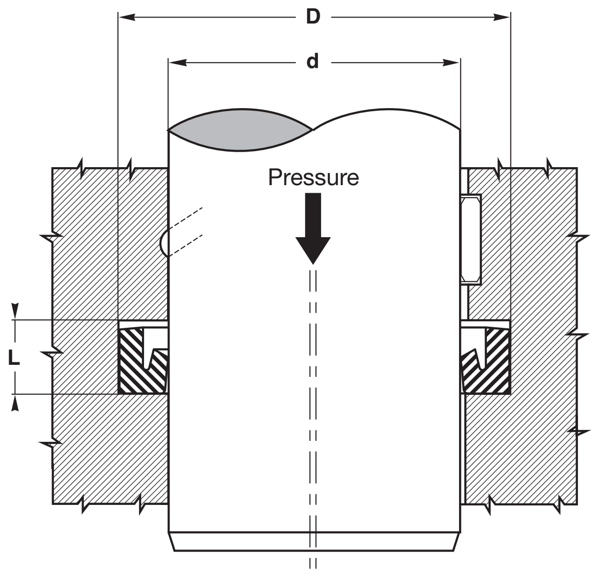
Pressure	up to 80 bar
Temperature	-20°C to +200°C
Speed	0,5 m/s
Fluids	air with lubrication, mineral oils or grease

Material

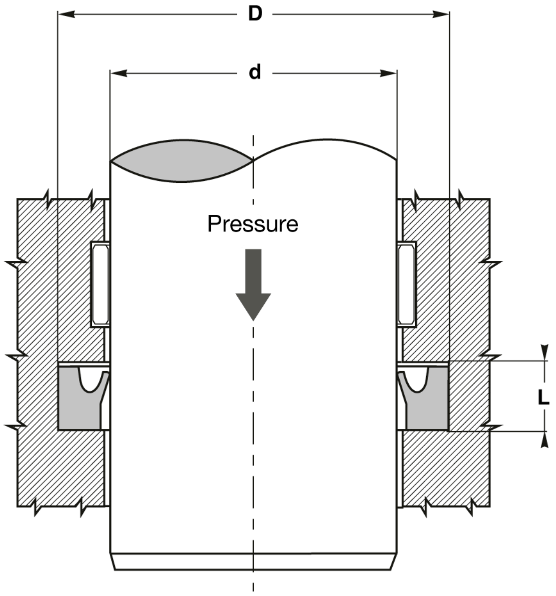
Standard	FPM 75 Sh A

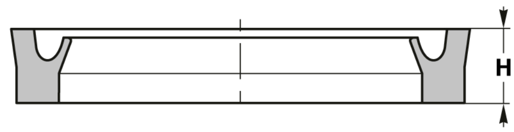
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.



Item code	d f9	D H10	L $^{+0,2}_{0}$	H
11DDIM 1218/C FPM	12,00	18,50	5,00	4,50
11DDIM 1622/C FPM	16,00	22,50	5,00	4,50
11DDIM 1826/C FPM	18,00	26,00	6,00	5,50
11DDIM 2028/C FPM	20,00	28,00	6,00	5,50
11DDIM 2230/C FPM	22,00	30,00	6,00	5,50
11DDIM 2533/C FPM	25,00	33,00	6,00	5,50
11DDIM 2838/C FPM	28,00	38,00	7,50	7,00
11DDIM 3040/C FPM	30,00	40,00	7,50	7,00
11DDIM 3242/C FPM	32,00	42,00	7,50	7,00
11DDIM 3646/C FPM	36,00	46,00	7,50	7,00
11DDIM 4050/C FPM	40,00	50,00	7,50	7,00
11DDIM 4555/C FPM	45,00	55,00	7,50	7,00
11DDIM 5060/C FPM	50,00	60,00	7,50	7,00





10DDIM.../P

Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

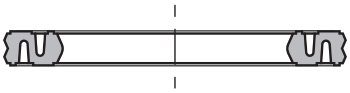
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

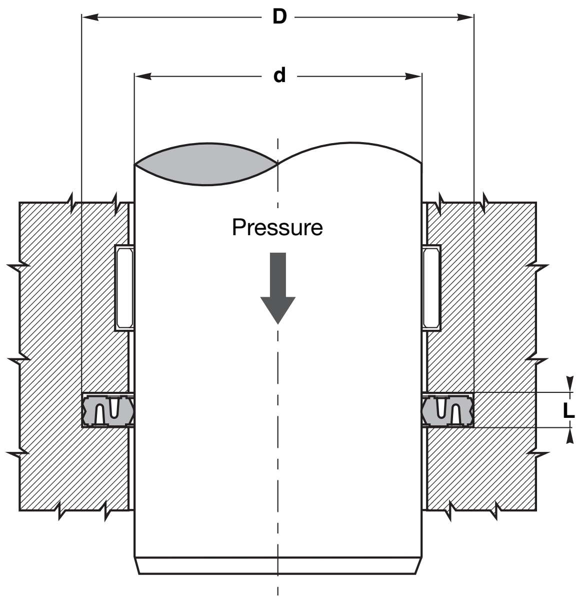
Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d_{f9}	D_{H10}	$L^{+0,2}_{0}$	H
10DDIM 0306/P	3,00	6,00	3,00	2,50
10DDIM 0408/P	4,00	8,00	3,50	3,00
10DDIM 0509/P	5,00	9,00	3,00	2,50
10DDIM 0610/P	6,00	10,00	3,50	3,00
10DDIM 0611/P	6,00	11,00	3,50	3,00
10DDIM 0612/P	6,00	12,00	4,50	4,00
10DDIM 0713/P	7,00	13,00	4,50	4,00
10DDIM 0714/P	7,00	14,00	4,00	3,50
10DDIM 0814/P	8,00	14,00	4,50	4,00
10DDIM 0816/P	8,00	16,00	5,00	4,50
10DDIM 1016/P	10,00	16,00	5,00	4,50
10DDIM 1018/P	10,00	18,00	6,00	5,50
10DDIM 1220/P	12,00	20,00	6,00	5,50
10DDIM 1422/P	14,00	22,00	6,00	5,50
10DDIM 1624/P	16,00	24,00	6,00	5,50
10DDIM 1826/P	18,00	26,00	6,00	5,50
10DDIM 2028/P	20,00	28,00	6,00	5,50
10DDIM 2228/P	22,00	28,00	5,00	4,50
10DDIM 2230/P	22,00	30,00	6,00	5,50
10DDIM 2533/P	25,00	33,00	6,00	5,50
10DDIM 2836/P	28,00	36,00	6,00	5,50
10DDIM 2838/P	28,00	38,00	7,50	7,00
10DDIM 3038/P	30,00	38,00	6,00	5,50
10DDIM 3040/P	30,00	40,00	7,50	7,00

Item code	d_{f9}	D_{H10}	$L^{+0,2}_{0}$	H
10DDIM 3240/P	32,00	40,00	6,00	5,50
10DDIM 3543/P	35,00	43,00	8,50	8,00
10DDIM 3545/P	35,00	45,00	7,50	7,00
10DDIM 3646/P	36,00	46,00	7,50	7,00
10DDIM 4048/P	40,00	48,00	6,00	5,50
10DDIM 4050/P	40,00	50,00	7,50	7,00
10DDIM 4555/P	45,00	55,00	7,50	7,00
10DDIM 5060/P	50,00	60,00	7,50	7,00
10DDIM 5565/P	55,00	65,00	7,50	7,00
10DDIM 5666/P	56,00	66,00	7,50	7,00
10DDIM 6072/P	60,00	72,00	9,50	8,50
10DDIM 6373/P	63,00	73,00	7,50	7,00
10DDIM 6375/P	63,00	75,00	9,50	8,50
10DDIM 6577/P	65,00	77,00	9,50	8,50
10DDIM 7082/P	70,00	82,00	9,50	8,50
10DDIM 7587/P	75,00	87,00	9,50	8,50
10DDIM 8092/P	80,00	92,00	9,50	8,50
10DDIM 8597/P	85,00	97,00	9,50	8,50
10DDIM 88100/P	88,00	100,00	9,50	8,50
10DDIM 90102/P	90,00	102,00	9,50	8,50
10DDIM 95107/P	95,00	107,00	9,50	8,50
10DDIM 100115/P	100,00	115,00	11,00	10,00



10RZR



Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

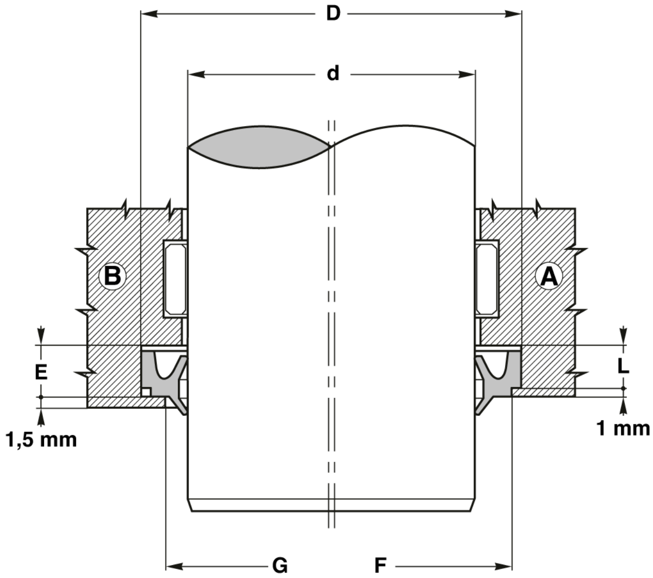
Material

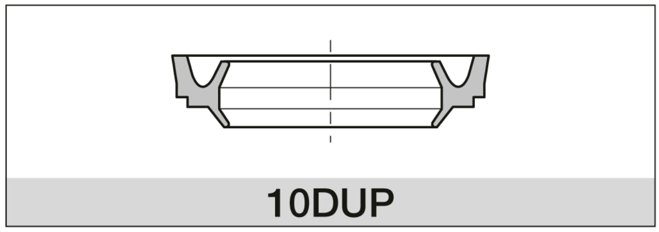
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d f9	D H10	L $^{+0,2}_{0}$
10RZR 6	6,0	13,0	2,5
10RZR 8	8,0	15,0	2,5
10RZR 10	10,0	17,0	2,5
10RZR 12	12,0	19,0	2,5
10RZR 14	14,0	21,0	2,5
10RZR 15	15,0	22,0	2,5
10RZR 16	16,0	25,0	3,0
10RZR 20	20,0	29,0	3,0
10RZR 25	25,0	34,0	3,0
10RZR 30	30,0	39,0	3,0
10RZR 40	40,0	49,0	3,0
10RZR 50	50,0	59,0	3,0





Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

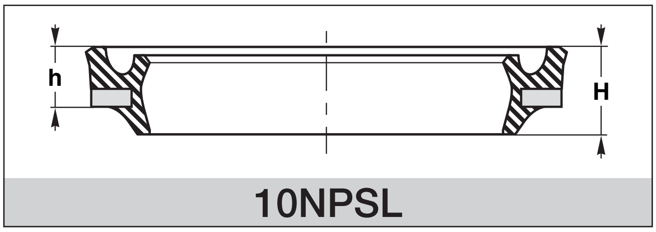
Material

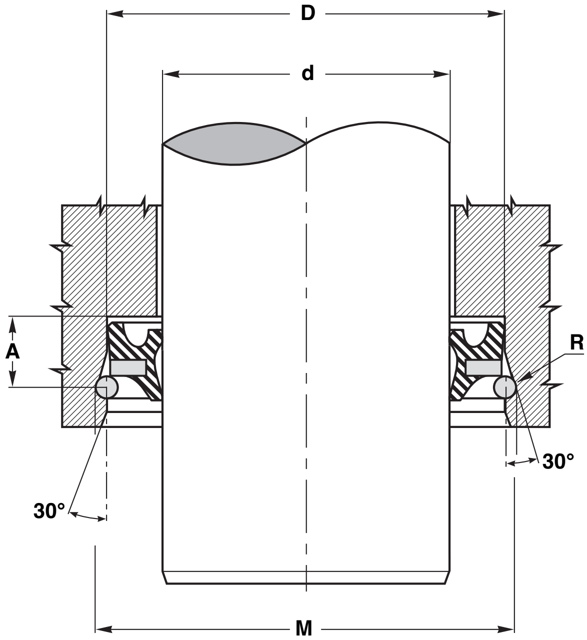
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d f9	D H10	F H11	G H11	$L^{+0,2}_{0}$	$E^{+0,2}_{0}$	Assembly
10DUP 4	4,0	8,1	6,7		3,0		A
10DUP 6	6,0	11,1	9,1		3,6		A
10DUP 8	8,0	14,1	12,1		3,6		A
10DUP 10	10,0	16,1	14,1		4,2		A
10DUP 12	12,0	18,1	15,1		4,2		A
10DUP 12/1	12,0	20,0	18,0		4,0		A
10DUP 14	14,0	22,0	20,0		4,0		A
10DUP 16	16,0	24,0	22,0		4,0		A
10DUP 18	18,0	26,0		21,5		6,0	B
10DUP 20	20,0	28,0		23,5		6,0	B
10DUP 22	22,0	30,0		25,5		6,0	B
10DUP 25	25,0	33,0		28,5		6,0	B
10DUP 28	28,0	36,0		31,5		6,0	B
10DUP 30	30,0	38,0		33,5		6,0	B
10DUP 32	32,0	40,0		35,5		6,0	B
10DUP 35	35,0	43,0		38,5		6,0	B
10DUP 36	36,0	44,0		39,5		6,0	B
10DUP 40	40,0	48,0		43,5		6,0	B
10DUP 42	42,0	50,0		45,5		6,0	B
10DUP 45	45,0	53,0		48,5		6,0	B
10DUP 50	50,0	58,0		53,5		6,0	B
10DUP 55	55,0	63,0		58,5		6,0	B
10DUP 60	60,0	68,0		63,5		6,0	B





Operating conditions

Pressure	up to 10 bar
Temperature	-30°C to +110°C
Speed	1 m/s
Fluids	air with lubrication, mineral oils or grease

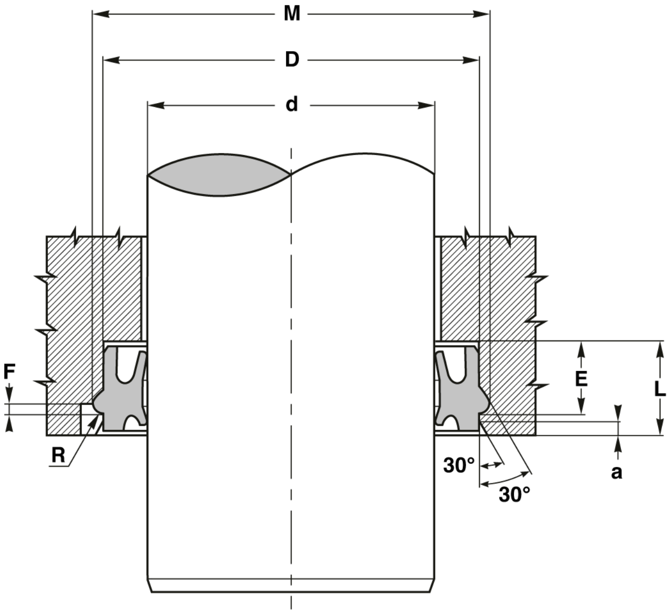
Material

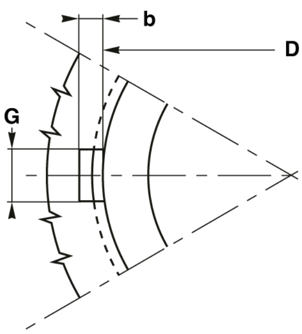
Standard	NBR 75 Sh A + carbon steel

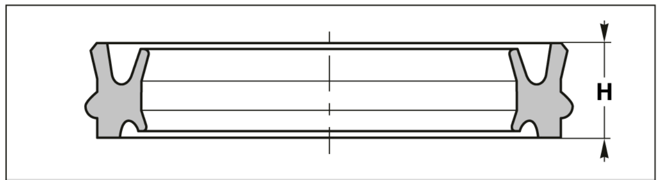
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d_{f9}	D_{H10}	h	H	$M^{+0,1}_{-0,1}$	$A^{+0,2}_{0}$	R
10NPSL 1020/7	10,00	20,00	7,00	9,50	22,00	8,50	1,10
10NPSL 1220/6	12,00	20,00	6,00	8,50	22,00	7,50	1,10
10NPSL 1222/7	12,00	22,00	7,00	9,50	24,00	8,50	1,10
10NPSL 1424/7	14,00	24,00	7,00	9,50	26,00	8,50	1,10
10NPSL 1626/7	16,00	26,00	7,00	9,50	28,00	8,50	1,10
10NPSL 1826/6	18,00	26,00	6,00	8,50	28,00	7,50	1,10
10NPSL 1828/7	18,00	28,00	7,00	9,50	30,00	8,50	1,10
10NPSL 2030/7	20,00	30,00	7,00	9,50	32,00	8,80	1,40
10NPSL 2232/7	22,00	32,00	7,00	9,50	34,50	8,80	1,40
10NPSL 2535/7	25,00	35,00	7,00	9,50	37,50	8,80	1,40
10NPSL 3040/7	30,00	40,00	7,00	9,50	42,50	8,80	1,40
10NPSL 3242/7	32,00	42,00	7,00	9,50	44,50	8,80	1,40
10NPSL 3545/7	35,00	45,00	7,00	9,50	47,50	8,80	1,40
10NPSL 4050/7	40,00	50,00	7,00	9,50	52,50	8,80	1,40
10NPSL 4555/7	45,00	55,00	7,00	9,50	57,50	8,80	1,40
10NPSL 5060/7	50,00	60,00	7,00	9,50	62,50	8,80	1,40







10NPSL-P

Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 93 Sh A

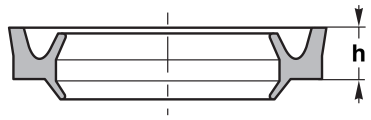
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

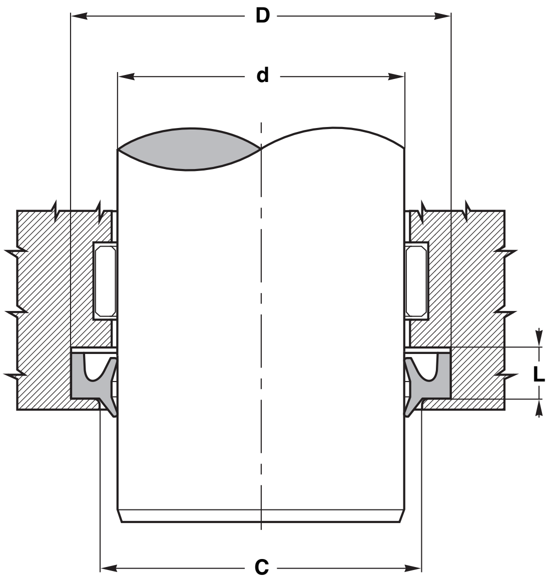
Rod seals / wipers

Item code	d_{f9}	D_{H10}	H	L	$M^{+0,1}_{-0,1}$	$E^{+0,2}_{0}$	R	F	a	b	G
10NPSL-P 12	12,00	22,00	10,70	13,00	24,00	8,80	1,10	2,50	1,50	1,80	4,00
10NPSL-P 12/1	12,00	20,00	10,70	13,00	22,00	8,80	1,10	2,50	1,50	1,80	4,00
10NPSL-P 16	16,00	26,00	10,70	13,00	28,00	8,80	1,10	2,50	1,50	1,80	5,00
10NPSL-P 18	18,00	28,00	10,70	13,00	30,00	8,80	1,10	2,50	1,50	1,80	5,00
10NPSL-P 18/1	18,00	26,00	10,70	13,00	28,00	8,80	1,10	2,50	1,50	1,80	5,00
10NPSL-P 20	20,00	30,00	10,70	13,00	32,00	8,80	1,10	2,50	1,50	1,80	5,00
10NPSL-P 22	22,00	32,00	11,20	14,00	34,50	9,40	1,40	3,00	2,00	2,00	7,50
10NPSL-P 25	25,00	35,00	11,20	14,00	37,50	9,40	1,40	3,00	2,00	2,00	7,50
10NPSL-P 30	30,00	40,00	11,20	14,00	42,50	9,40	1,40	3,00	2,00	2,00	7,50
10NPSL-P 32	32,00	42,00	11,20	14,00	44,50	9,40	1,40	3,00	2,00	2,00	7,50
10NPSL-P 40	40,00	50,00	11,20	14,00	52,50	9,40	1,40	3,00	2,00	2,00	7,50
10NPSL-P 45	45,00	55,00	12,20	15,00	58,20	10,40	1,80	4,00	2,00	2,50	10,00
10NPSL-P 50	50,00	60,00	12,20	15,00	63,20	10,40	1,80	4,00	2,00	2,50	10,00
10NPSL-P 63	63,00	75,00	13,00	16,00	78,20	11,40	1,80	4,00	2,00	2,50	10,00

10UWP



10UWP



Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

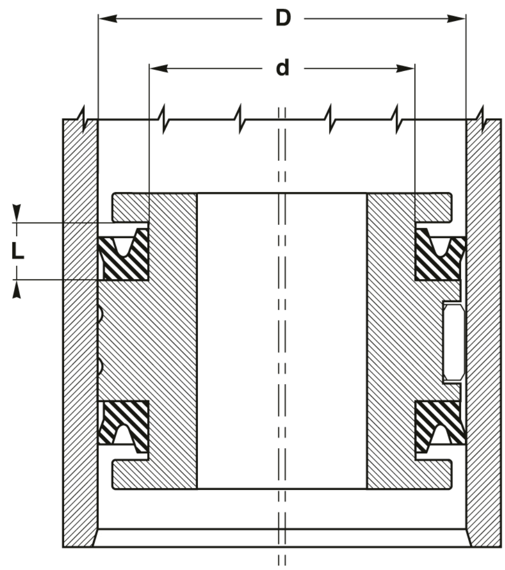
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

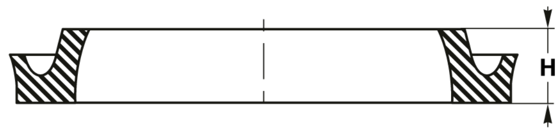
Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d_{f9}	D_{H10}	C_{H11}	h	$L^{+0,2}_{0}$
10UWP 3	3,0	8,8	5,0	4,0	4,5
10UWP 4	4,0	7,0	6,0	2,2	2,7
10UWP 4/1	4,0	8,8	5,4	4,0	4,5
10UWP 5	5,0	8,0	6,2	2,2	2,7
10UWP 6	6,0	9,0	7,2	2,2	2,7
10UWP 6/1	6,0	10,8	8,0	4,0	4,5
10UWP 8	8,0	11,5	9,2	2,5	3,0
10UWP 8/1	8,0	12,8	10,0	4,0	4,5
10UWP 8/2	8,0	14,0	11,0	4,0	4,5
10UWP 10	10,0	14,0	11,4	2,8	3,2
10UWP 10/1	10,0	16,0	12,5	3,6	4,0
10UWP 10/2	10,0	16,8	13,0	4,0	4,5
10UWP 10/3	10,0	18,0	14,0	4,5	5,0
10UWP 12	12,0	16,5	13,7	3,2	3,7
10UWP 12/1	12,0	18,0	14,5	3,6	4,0
10UWP 12/2	12,0	20,0	16,0	3,2	3,7
10UWP 12/3	12,0	20,0	16,0	4,5	5,0
10UWP 12/4	12,0	20,0	16,0	5,0	5,5
10UWP 12/5	12,0	22,0	16,0	5,0	6,0
10UWP 14	14,0	18,5	15,7	3,2	3,7
10UWP 14/1	14,0	20,0	16,5	3,6	4,0
10UWP 14/2	14,0	22,0	18,0	4,5	5,0
10UWP 14/3	14,0	24,0	18,0	5,0	6,0
10UWP 16	16,0	20,5	17,7	3,2	3,7
10UWP 16/1	16,0	22,0	18,5	3,6	4,0
10UWP 16/2	16,0	24,0	18,5	4,5	5,0
10UWP 16/3	16,0	26,0	20,0	5,0	6,0

Item code	d_{f9}	D_{H10}	C_{H11}	h	$L^{+0,2}_{0}$
10UWP 18	18,0	22,5	19,7	3,2	3,7
10UWP 18/1	18,0	24,0	20,5	3,6	4,0
10UWP 18/2	18,0	26,0	21,0	4,5	5,0
10UWP 18/3	18,0	28,0	22,0	5,0	6,0
10UWP 20	20,0	25,0	21,9	3,6	4,0
10UWP 20/1	20,0	26,0	22,5	3,6	4,0
10UWP 20/2	20,0	30,0	24,0	6,0	7,0
10UWP 22	22,0	27,0	23,9	3,6	4,0
10UWP 22/1	22,0	28,0	24,5	3,6	4,0
10UWP 22/2	22,0	32,0	26,0	6,0	7,0
10UWP 25	25,0	30,0	26,9	3,6	4,0
10UWP 25/1	25,0	31,0	27,5	3,6	4,0
10UWP 25/2	25,0	35,0	29,0	6,0	7,0
10UWP 28	28,0	38,0	32,0	6,0	7,0
10UWP 30	30,0	35,5	32,1	3,9	4,5
10UWP 30/1	30,0	38,0	33,0	4,5	5,0
10UWP 30/2	30,0	40,0	34,0	6,0	7,0
10UWP 32	32,0	37,5	34,1	3,9	4,5
10UWP 32/1	32,0	40,0	35,0	4,5	5,0
10UWP 32/2	32,0	42,0	36,0	6,0	7,0
10UWP 35	35,0	45,0	39,0	6,0	7,0
10UWP 36	36,0	44,0	39,0	4,5	5,0
10UWP 36/1	36,0	46,0	40,0	6,0	7,0
10UWP 40	40,0	50,0	44,0	6,0	7,0
10UWP 45	45,0	53,0	48,0	4,5	5,0
10UWP 45/1	45,0	55,0	49,0	6,0	7,0
10UWP 50	50,0	62,0	55,0	7,5	8,5



metal guiding || *with guide rings*



10DDE inch

Operating conditions

Pressure	up to 80 bar
Temperature	-30°C to +110°C
Speed	0,5 m/s
Fluids	air with lubrication, mineral oils or grease

Material

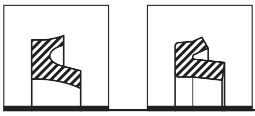
Standard	NBR 75 Sh A

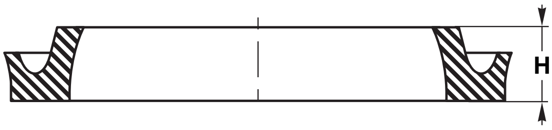
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

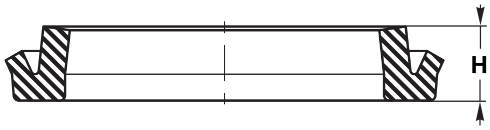
Item code	D H11	d h10	$L^{+0,2}_{0}$	H
10DDE 050	13,00	6,70	6,30	4,76
10DDE 062	16,00	8,10	7,00	5,55
10DDE 075	19,05	12,70	5,00	3,17
10DDE 100	25,40	16,50	8,00	6,35
10DDE 106	27,00	17,50	8,00	6,35
10DDE 112	29,00	19,05	8,00	6,35
10DDE 125	32,00	19,30	8,00	6,35
10DDE 137	35,00	22,30	8,00	6,35
10DDE 143	37,00	26,00	8,00	6,35
10DDE 150	38,00	30,00	8,00	6,35
10DDE 150100	38,10	25,40	9,52	7,92
10DDE 156	40,00	27,30	8,00	6,35
10DDE 162	42,00	30,90	8,00	6,35
10DDE 175	45,00	35,50	8,50	7,00
10DDE 175112	44,45	28,57	11,10	9,52
10DDE 187	48,00	32,10	9,50	7,93
10DDE 193	49,00	35,00	11,00	9,52
10DDE 200	51,00	41,50	9,00	7,14
10DDE 212	54,00	41,30	11,00	9,52
10DDE 212150	53,97	38,10	11,10	9,52
10DDE 225	57,00	44,30	8,00	6,35
10DDE 225162	57,15	41,27	11,10	9,52
10DDE 237	61,00	48,30	8,00	6,35
10DDE 250	64,00	46,30	10,50	8,85
10DDE 250187	63,50	47,62	11,10	9,52
10DDE 275	70,00	54,10	9,50	7,93
10DDE 300	76,00	57,90	10,50	8,73
10DDE 300225	76,20	57,15	14,30	12,70
10DDE 312	80,00	67,30	8,00	6,35
10DDE 325	83,00	71,90	8,50	7,50

	D H11	d h10	$L^{+0,2}_{0}$	H
10DDE 325250	82,55	63,50	14,30	12,70
10DDE 337	86,00	73,30	11,00	9,52
10DDE 350	89,00	76,30	8,00	6,35
10DDE 375	95,00	76,70	9,00	7,40
10DDE 375300	95,25	76,20	14,30	12,70
10DDE 387	99,00	86,30	11,00	9,52
10DDE 400	102,00	89,30	11,00	9,52
10DDE 425	108,00	95,30	9,50	7,93
10DDE 437	111,00	94,70	9,50	7,93
10DDE 450350	115,00	89,60	19,00	15,90
10DDE 462	118,00	105,30	11,00	9,52
10DDE 475	121,00	108,30	11,00	9,52
10DDE 500	127,00	108,00	11,00	9,52
10DDE 500400	127,00	101,60	17,45	15,87
10DDE 512	130,00	117,30	11,00	9,52
10DDE 525	134,00	121,30	11,00	9,52
10DDE 587	149,00	136,30	11,00	9,52
10DDE 600500	153,00	127,60	19,00	15,90
10DDE 625525	159,00	133,60	19,00	15,90
10DDE 650550	165,00	139,60	19,00	15,90
10DDE 675	172,00	153,00	12,50	11,10
10DDE 700625	191,00	159,30	22,00	19,00
10DDE 800675	204,00	172,30	22,00	19,00
10DDE 825700	210,00	178,30	22,00	19,00
10DDE 1000	254,00	235,00	14,50	12,70
10DDE 1000875	254,00	222,25	20,62	19,05
10DDE 1200	305,00	279,60	14,50	12,70

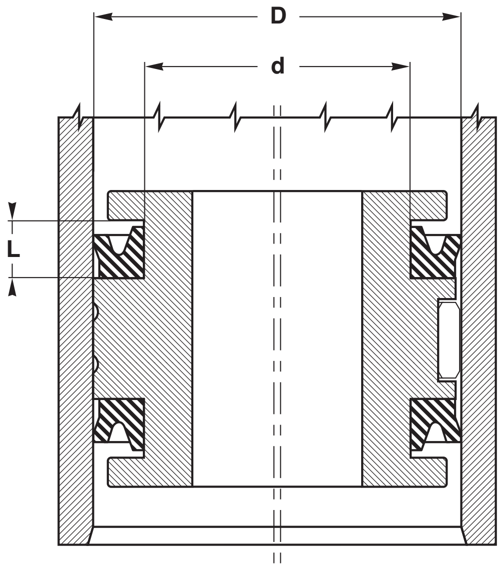




10DDEM metric



10DDEM.../C



metal guiding | *with guide rings*

Operating conditions

Pressure	up to 80 bar
Temperature	-30°C to +110°C
Speed	0,5 m/s
Fluids	air with lubrication, mineral oils or grease

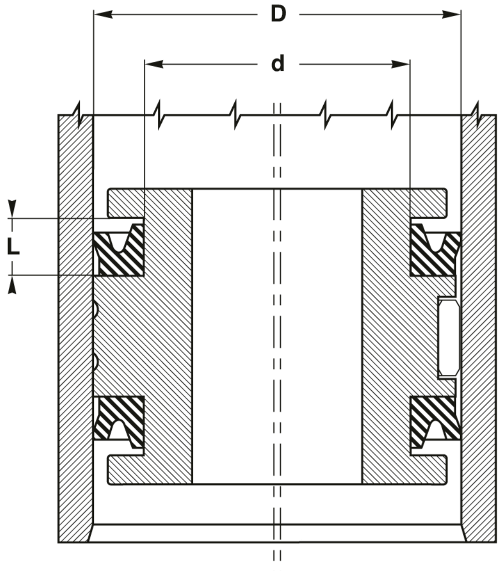
Material

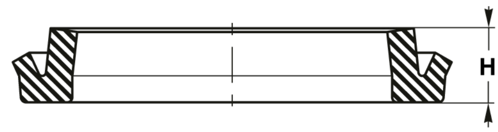
Standard	NBR 75 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D H11	d h10	L $^{+0,2}_{0}$	H
10DDEM 1206	12,00	6,00	4,50	4,00
10DDEM 1610	16,00	10,00	4,50	4,00
10DDEM 2012	20,00	12,00	6,00	5,50
10DDEM 2517	25,00	17,00	6,00	5,50
10DDEM 3224	32,00	24,00	6,00	5,50
10DDEM 4030	40,00	30,00	7,50	7,00
10DDEM 5040	50,00	40,00	7,50	7,00
10DDEM 5545	55,00	45,00	7,50	7,00
10DDEM 6050	60,00	50,00	7,50	7,00
10DDEM 6353	63,00	53,00	7,50	7,00
10DDEM 6555	65,00	55,00	7,50	7,00
10DDEM 7058	70,00	58,00	9,50	8,50
10DDEM 7563	75,00	63,00	9,50	8,50
10DDEM 8068	80,00	68,00	9,50	8,50
10DDEM 8573	85,00	73,00	9,50	8,50
10DDEM 9078	90,00	78,00	9,50	8,50
10DDEM 100088	100,00	88,00	9,50	8,50
10DDEM 105093	105,00	93,00	9,50	8,50
10DDEM 110098	110,00	98,00	9,50	8,50
10DDEM 120105	120,00	105,00	11,00	10,00
10DDEM 125110	125,00	110,00	11,00	10,00
10DDEM 140125	140,00	125,00	11,00	10,00
10DDEM 145130	145,00	130,00	11,00	10,00
10DDEM 150135	150,00	135,00	11,00	10,00
10DDEM 160145	160,00	145,00	11,00	10,00
10DDEM 180160	180,00	160,00	15,00	14,00
10DDEM 200180	200,00	180,00	15,00	14,00
10DDEM 220200	220,00	200,00	15,00	14,00
10DDEM 250230	250,00	230,00	15,00	14,00





11DDEM.../C FPM

Operating conditions

Pressure	up to 80 bar
Temperature	-30°C to +110°C
Speed	0,5 m/s
Fluids	air with lubrication, mineral oils or grease

Material

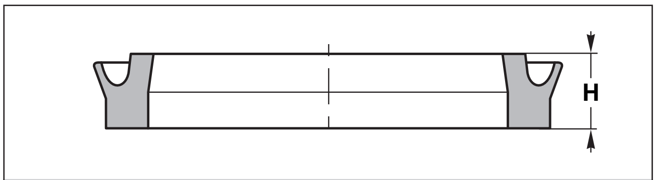
Standard	FPM 75 Sh A

Assembly

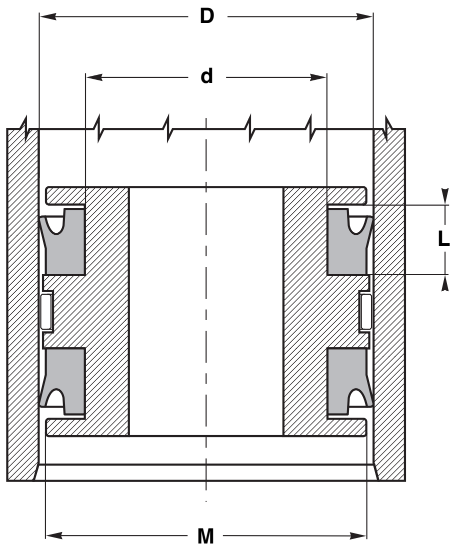
Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D H11	d h10	$L^{+0,2}_{0}$	H
11DDEM 2012/C FPM	20,00	12,00	6,00	5,50
11DDEM 2517/C FPM	25,00	17,00	6,00	5,50
11DDEM 3222/C FPM	32,00	22,00	5,50	5,00
11DDEM 4030/C FPM	40,00	30,00	7,50	7,00
11DDEM 5040/C FPM	50,00	40,00	7,50	7,00
11DDEM 6050/C FPM	60,00	50,00	7,50	7,00
11DDEM 6353/C FPM	63,00	53,00	7,50	7,00
11DDEM 8068/C FPM	80,00	68,00	9,50	8,50
11DDEM 100088/C FPM	100,00	88,00	9,50	8,50
11DDEM 125110/C FPM	125,00	110,00	11,00	10,00
11DDEM 150135/C FPM	150,00	135,00	11,00	10,00
11DDEM 160145/C FPM	160,00	145,00	11,00	10,00
11DDEM 200180/C FPM	200,00	180,00	15,00	14,00

10DDEM/P



10DDEM/P



Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

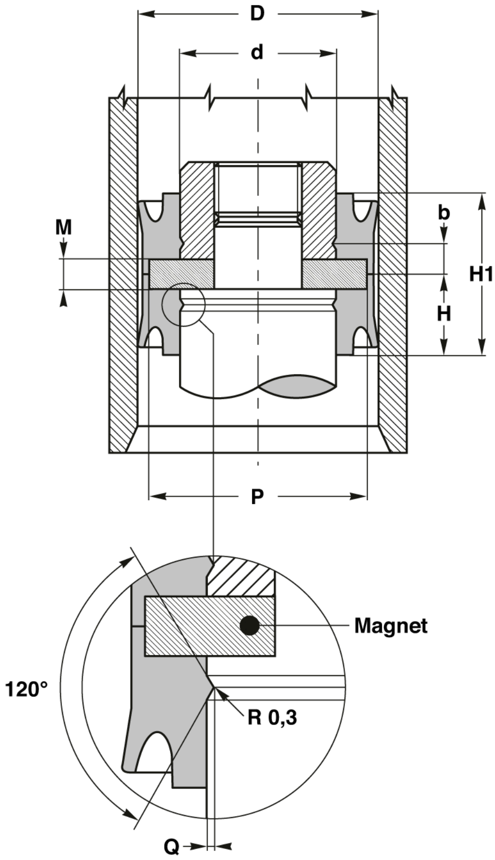
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

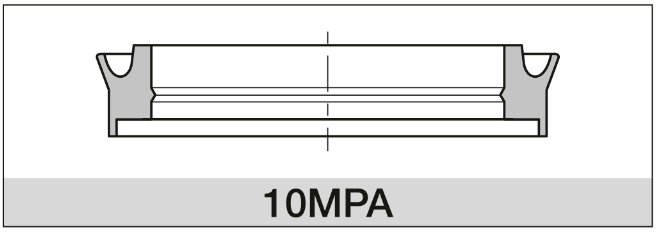
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D H11	d h10	L $^{+0,2}_{0}$	M
10DDEM 0502/P	5,0	2,5	2,0	4,0
10DDEM 0603/P	6,0	3,0	2,5	5,0
10DDEM 0804/P	8,0	4,0	3,0	7,0
10DDEM 0805/P	8,0	4,8	2,7	7,0
10DDEM 0805/P1	8,0	4,8	3,0	7,0
10DDEM 1006/P	10,0	6,0	3,0	9,0
10DDEM 1207/P	12,0	7,0	3,0	11,0
10DDEM 1308/P	13,0	8,0	3,0	12,0
10DDEM 1408/P	14,0	8,0	3,0	13,0
10DDEM 1509/P	15,0	9,0	3,0	14,0
10DDEM 1610/P	16,0	10,0	3,0	15,0
10DDEM 1711/P	17,0	11,0	3,0	16,0
10DDEM 1812/P	18,0	12,0	3,0	17,0
10DDEM 2014/P1	20,0	14,0	3,0	19,0
10DDEM 2014/P	20,0	14,0	4,5	19,0
10DDEM 2216/P	22,0	16,0	3,0	21,0
10DDEM 2418/P	24,0	18,0	3,0	23,0
10DDEM 2517/P	25,0	17,0	6,0	24,0
10DDEM 2519/P	25,0	19,0	3,5	24,0
10DDEM 2519/P1	25,0	19,0	4,5	24,0
10DDEM 2818/P	28,0	18,0	7,5	27,0
10DDEM 2822/P	28,0	22,0	3,5	27,0
10DDEM 3020/P	30,0	20,0	5,7	29,0
10DDEM 3022/P	30,0	22,0	3,5	29,0
10DDEM 3224/P1	32,0	24,0	3,5	31,0
10DDEM 3224/P	32,0	24,0	6,0	31,0
10DDEM 3527/P	35,0	27,0	3,5	34,0
10DDEM 3628/P	36,0	28,0	3,5	35,0
10DDEM 3830/P	38,0	30,0	3,5	37,0
10DDEM 3830/P1	38,0	30,0	6,0	37,0
10DDEM 4030/P	40,0	30,0	7,5	39,0
10DDEM 4032/P	40,0	32,0	3,5	39,0
10DDEM 4230/P	42,0	30,0	6,5	41,0

Item code	D H11	d h10	L $^{+0,2}_{0}$	M
10DDEM 4234/P	42,0	34,0	3,5	41,0
10DDEM 4537/P	45,0	37,0	3,5	44,0
10DDEM 5040/P	50,0	40,0	7,5	49,0
10DDEM 5042/P	50,0	42,0	3,5	49,0
10DDEM 5242/P	52,0	42,0	4,5	51,0
10DDEM 5545/P	55,0	45,0	7,5	54,0
10DDEM 5848/P	58,0	48,0	4,5	57,0
10DDEM 6050/P1	60,0	50,0	5,7	59,0
10DDEM 6050/P	60,0	50,0	7,5	59,0
10DDEM 6353/P1	63,0	53,0	4,5	62,0
10DDEM 6353/P	63,0	53,0	7,5	62,0
10DDEM 6555/P	65,0	55,0	7,5	64,0
10DDEM 6858/P	68,0	58,0	5,5	67,0
10DDEM 7058/P	70,0	58,0	9,5	69,0
10DDEM 7563/P	75,0	63,0	9,5	74,0
10DDEM 8068/P	80,0	68,0	9,5	79,0
10DDEM 8070/P	80,0	70,0	4,5	79,0
10DDEM 8573/P	85,0	73,0	9,5	84,0
10DDEM 9078/P	90,0	78,0	9,5	89,0
10DDEM 9080/P	90,0	80,0	4,5	89,0
10DDEM 100088/P	100,0	88,0	9,5	99,0
10DDEM 100090/P	100,0	90,0	4,5	99,0
10DDEM 110095/P	110,0	95,0	11,0	109,0
10DDEM 120105/P	120,0	105,0	11,0	119,0
10DDEM 125105/P	125,0	105,0	8,5	124,0
10DDEM 125110/P	125,0	110,0	11,0	124,0
10DDEM 140120/P	140,0	120,0	8,5	139,0
10DDEM 160140/P	160,0	140,0	8,5	159,0
10DDEM 160145/P	160,0	145,0	11,0	159,0
10DDEM 180160/P	180,0	160,0	15,0	179,0
10DDEM 200180/P1	200,0	180,0	8,5	199,0
10DDEM 200180/P	200,0	180,0	15,0	199,0
10DDEM 250230/P	250,0	230,0	15,0	249,0





Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

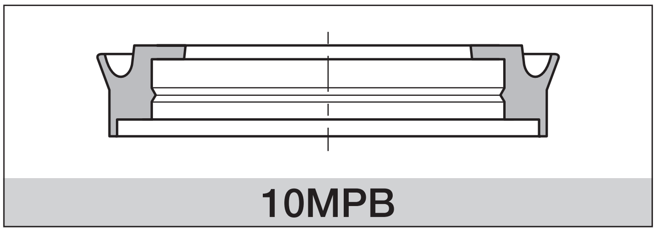
Material

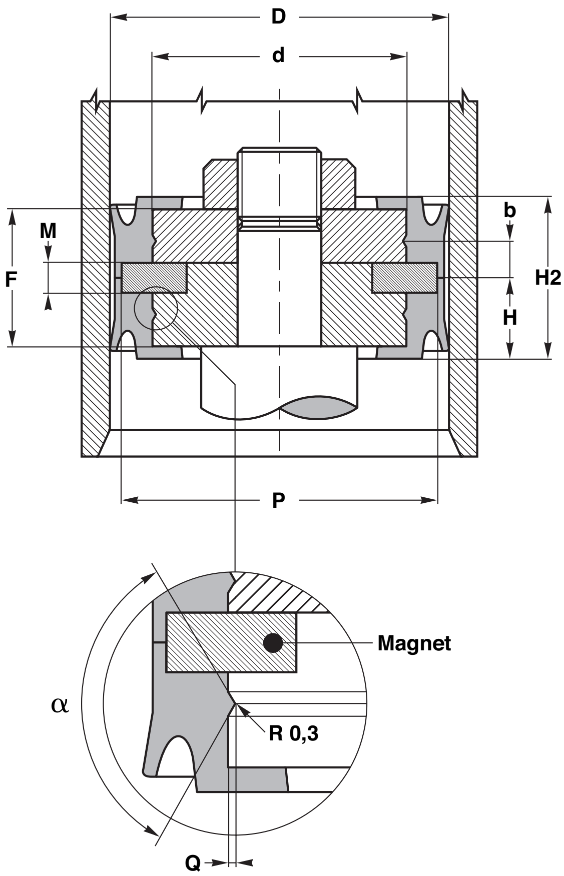
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D H11	d h9	P $^{0}_{-0,1}$	H	H1	M $^{0}_{-0,1}$	Q	b
10MPA 8	8,0	4,0	6,5	6,00	12,0	4,0	0,35	4,00
10MPA 10	10,0	4,0	8,5	6,00	12,0	3,0	0,35	3,50
10MPA 12	12,0	6,0	10,5	6,00	12,0	3,0	0,40	3,50
10MPA 16	16,0	8,0	14,5	6,00	12,0	3,0	0,40	3,50
10MPA 20	20,0	10,0	18,0	6,00	12,0	3,0	0,50	3,50
10MPA 25	25,0	10,0	23,0	6,00	12,0	3,0	0,50	3,50





Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

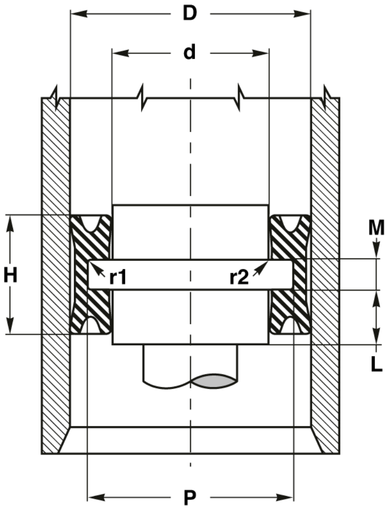
Material

Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D_{H11}	d_{h9}	$P^{0}_{-0,1}$	H	H2	$M^{0}_{-0,1}$	Q	b	F	a
10MPB 32	32,0	26,0	29,5	7,00	14,0	3,0	0,50	4,00	11,0	120
10MPB 32/2	32,0	26,0	29,5	7,00	14,0	5,0	0,50	4,00	11,0	120
10MPB 40	40,0	34,0	37,5	7,25	14,5	5,0	0,50	4,25	12,0	120
10MPB 50	50,0	43,0	46,5	7,25	14,5	5,0	0,60	4,25	12,0	120
10MPB 63	63,0	55,0	59,5	10,00	20,0	5,0	0,80	6,00	17,0	120
10MPB 80	80,0	72,0	76,5	11,00	22,0	5,0	0,80	6,50	19,0	120
10MPB 100	100,0	90,0	96,5	13,00	26,0	5,0	0,80	7,50	22,0	120



10MPZ

Operating conditions

Pressure	up to 16 bar
Temperature	-30°C to +80°C
Speed	1 m/s
Fluids	air with lubrication, mineral oils or grease

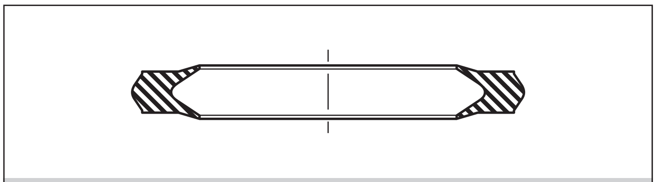
Material

Standard	NBR 75 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D_{H11}	$d^{+0,1}_{0}$	H	$P^{0}_{-0,1}$	$M^{0}_{-0,1}$	L	r1	r2
10MPZ 16	16,0	10,0	10,5	13,5	3,0	4,5	0,9	0,2
10MPZ 20	20,0	14,0	10,5	17,5	3,0	4,5	0,9	0,2
10MPZ 25	25,0	18,0	12,0	22,5	3,0	5,0	1,3	0,2
10MPZ 28	28,0	21,0	10,5	25,5	3,0	4,5	1,3	0,2
10MPZ 30	30,0	23,0	12,0	27,5	3,0	5,0	1,3	0,2
10MPZ 32	32,0	25,0	12,0	29,5	3,0	5,0	1,3	0,2
10MPZ 40	40,0	33,0	12,0	37,5	3,0	5,0	1,3	0,2
10MPZ 45	45,0	38,0	12,0	42,5	3,0	5,0	1,3	0,2
10MPZ 50	50,0	43,0	12,0	47,5	3,0	5,0	1,3	0,2
10MPZ 63	63,0	53,0	17,0	60,0	5,0	7,0	1,6	0,3
10MPZ 63/1	63,0	56,0	12,0	60,5	3,0	5,0	1,6	0,3
10MPZ 70	70,0	62,0	13,0	67,5	4,0	5,5	1,6	0,3
10MPZ 80	80,0	70,0	18,0	77,0	6,0	7,0	1,6	0,3
10MPZ 80/1	80,0	72,0	13,0	77,4	4,0	5,5	1,6	0,3
10MPZ 100	100,0	88,0	21,0	96,5	8,0	7,5	1,6	0,4
10MPZ 100/1	100,0	90,0	16,0	97,0	4,0	7,0	1,6	0,3
10MPZ 125	125,0	113,0	15,0	122,0	5,0	6,0	1,6	0,4
10MPZ 125/1	125,0	113,0	21,0	121,5	8,0	7,5	1,6	0,4
10MPZ 140	140,0	128,0	21,0	136,5	8,0	7,5	1,6	0,4
10MPZ 160	160,0	145,0	26,0	155,5	10,0	9,5	1,6	0,4



Operating conditions

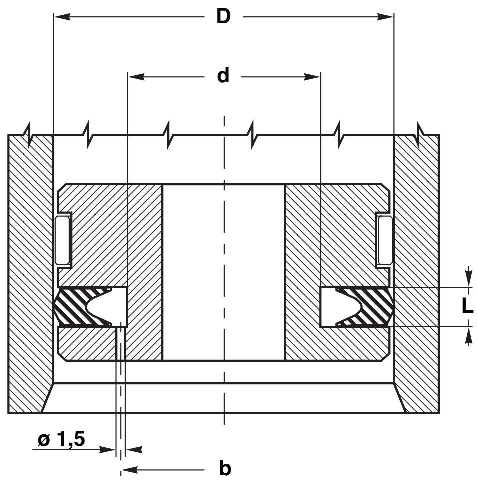
Pressure	up to 16 bar
Temperature	-30°C to +80°C
Speed	1 m/s
Fluids	air with lubrication

Material

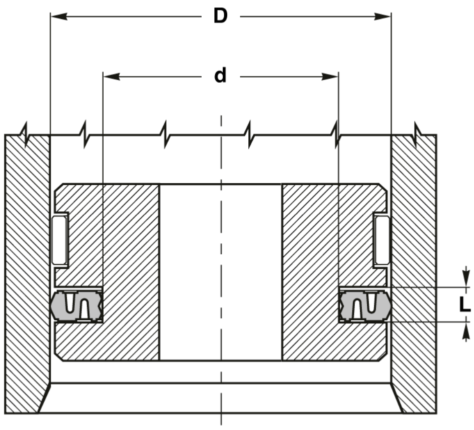
Standard	NBR 75 Sh A

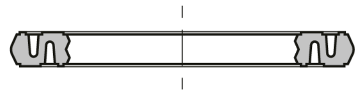
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.



Item code	D H10	d h10	L $^{+0,1}_{0}$	b
10PKK 30	30,0	19,5	2,3	21,2
10PKK 40	40,0	26,5	3,0	28,2
10PKK 50	50,0	36,5	3,0	38,2
10PKK 80	80,0	60,0	4,1	61,7
10PKK 82	82,0	62,0	4,1	63,7
10PKK 125	125,0	100,0	5,1	102,0
10PKK 160	160,0	132,0	6,2	134,0





10RZP

Operating conditions

Pressure	up to 20 bar
Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

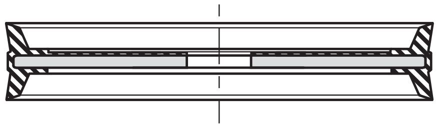
Material

Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

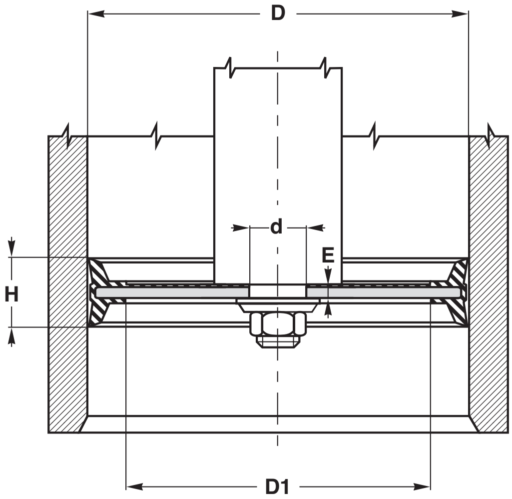
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D H11	d h10	L $^{+0,2}_{0}$
10RZP 12	12,0	7,0	2,5
10RZP 16	16,0	9,0	2,5
10RZP 20	20,0	13,0	2,5
10RZP 25	25,0	18,0	2,5
10RZP 28	28,0	21,0	2,5
10RZP 30	30,0	21,0	3,0
10RZP 32	32,0	23,0	3,0
10RZP 35	35,0	26,0	3,0
10RZP 40	40,0	31,0	3,0
10RZP 45	45,0	36,0	3,0
10RZP 50	50,0	41,0	3,0
10RZP 60	60,0	48,0	4,0
10RZP 63	63,0	51,0	4,0
10RZP 70	70,0	58,0	4,0
10RZP 80	80,0	68,0	4,0



10TDOP



Operating conditions

Pressure	up to 10 bar
Temperature	-30°C to +110°C
Speed	1 m/s
Fluids	air with lubrication, mineral oils or grease

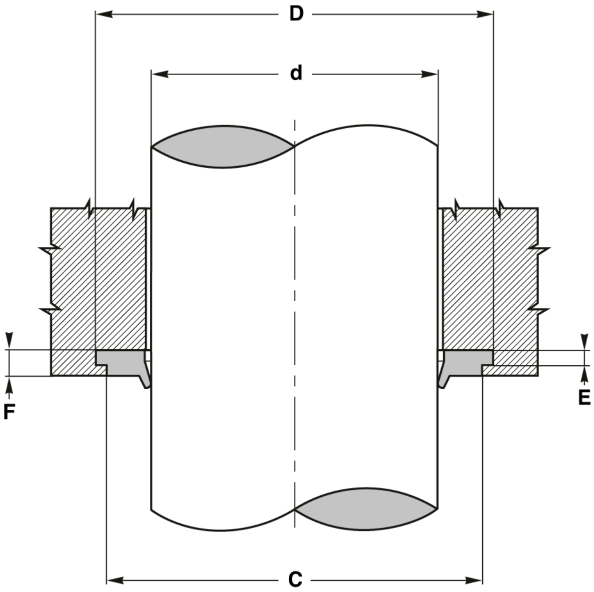
Material

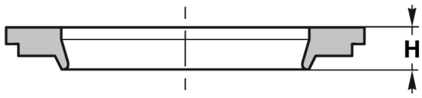
Standard	NBR 85 Sh A

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. A lead-in chamfer should be present for easy installation.

Item code	D H11	d f8	H	E	D1
10TDOP 020	20,0	5,2	8,0	1,0	12,2
10TDOP 025	25,0	8,0	12,0	3,8	14,0
10TDOP 032	32,0	8,0	15,0	3,8	14,0
10TDOP 035	35,0	8,0	15,0	3,0	19,0
10TDOP 040	40,0	10,0	18,0	4,8	20,0
10TDOP 050	50,0	10,0	18,0	4,8	20,0
10TDOP 060	60,0	12,0	22,0	5,0	37,0
10TDOP 063	63,0	12,0	22,0	6,0	40,0
10TDOP 063/1	63,0	16,0	22,0	6,0	40,0
10TDOP 063/2	63,0	14,0	22,0	6,0	40,0
10TDOP 065	65,0	12,0	25,0	5,0	40,0
10TDOP 070	70,0	12,0	22,0	6,0	47,0
10TDOP 080	80,0	16,0	24,0	6,0	55,0
10TDOP 080/1	80,0	12,0	25,0	6,0	55,0
10TDOP 080/2	80,0	14,0	25,0	6,0	55,0
10TDOP 090	90,0	12,0	25,0	6,0	65,0
10TDOP 100	100,0	20,0	26,0	9,0	74,0
10TDOP 100/1	100,0	18,0	25,0	9,0	75,0
10TDOP 110	110,0	12,0	25,0	9,0	75,0
10TDOP 125	125,0	20,0	26,0	9,0	90,0
10TDOP 125/1	125,0	18,0	30,0	9,0	90,0
10TDOP 140	140,0	20,0	30,0	10,0	95,0
10TDOP 150	150,0	20,0	30,0	10,0	105,0
10TDOP 160	160,0	27,0	30,0	11,0	115,0
10TDOP 180	180,0	27,0	31,0	10,0	135,0
10TDOP 200	200,0	27,0	35,0	11,0	150,0
10TDOP 250	250,0	30,0	35,0	12,0	200,0
10TDOP 320	320,0	36,0	40,0	15,0	278,5
10TDOP 400	400,0	40,0	50,0	20,0	320,0





10WRP

Operating conditions

Temperature	-30°C to +90°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

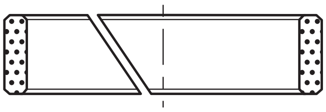
Standard	Polyurethane 90 Sh A
Alternative	Polyurethane 85 Sh A

Assembly

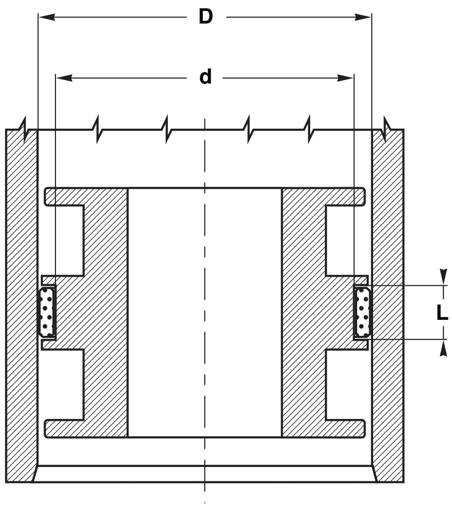
Eliminate any cutting edges and flash in the housing to permit assembly and prevent damage to the seals during mounting. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d f9	D H11	C $^{+0,1}_{0}$	H	F	E $^{+0,2}_{0}$
10WRP 6	6,0	14,6	12,0	4,5	3,0	1,6
10WRP 8	8,0	17,6	15,0	4,5	3,0	1,6
10WRP 10	10,0	19,6	17,0	4,5	3,0	1,6
10WRP 12	12,0	21,6	19,0	4,5	3,0	1,6
10WRP 14	14,0	23,6	21,0	4,5	3,0	1,6
10WRP 16	16,0	26,6	24,0	4,5	3,0	1,6
10WRP 20	20,0	30,6	28,0	4,5	3,0	1,6
10WRP 25	25,0	38,0	35,0	4,5	3,0	1,6
10WRP 30	30,0	44,0	40,0	4,5	3,0	1,6
10WRP 40	40,0	56,0	52,0	4,5	3,0	1,6
10WRP 50	50,0	66,0	62,0	4,5	3,0	1,6

10EDP



10EDP



Operating conditions

Temperature	-40°C to +110°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

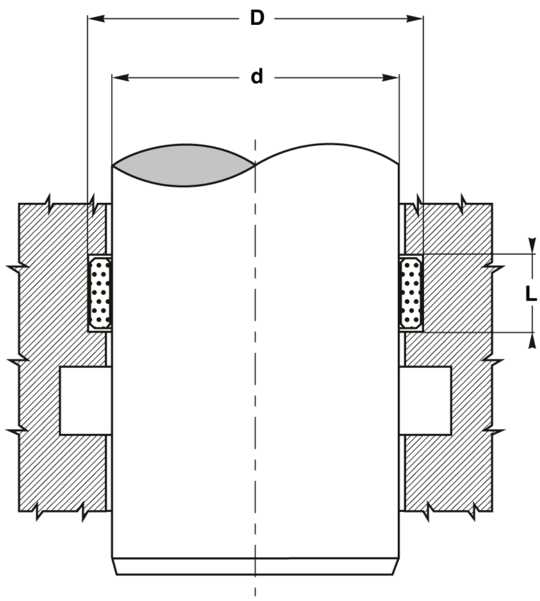
POM modifed

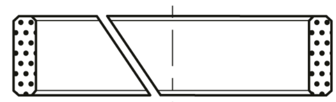
Assembly

Eliminate any cutting edges and flash in the housing to permit assembly. The same applies to the tube, a lead-in chamfer should be present instead.

Item code	D H11	d h7	L $^{+0,2}_{0}$
10EDP 8	8,0	4,9	2,5
10EDP 10	10,0	6,9	2,5
10EDP 10/1	10,0	6,9	4,0
10EDP 12	12,0	8,9	4,0
10EDP 14	14,0	10,9	4,0
10EDP 15	15,0	11,9	4,0
10EDP 16	16,0	12,9	4,0
10EDP 16/1	16,0	12,0	9,7
10EDP 18	18,0	14,9	4,0
10EDP 20	20,0	16,9	4,0
10EDP 20/1	20,0	16,0	8,2
10EDP 20/2	20,0	16,0	9,7
10EDP 22	22,0	18,0	9,7
10EDP 25	25,0	21,9	4,0
10EDP 25/1	25,0	21,0	8,2
10EDP 30	30,0	26,0	8,2
10EDP 32	32,0	28,9	4,0
10EDP 32/1	32,0	28,0	8,2
10EDP 35	35,0	31,0	8,2
10EDP 40	40,0	36,0	8,2
10EDP 45	45,0	41,0	10,2
10EDP 50	50,0	46,0	10,2
10EDP 55	55,0	51,0	10,2
10EDP 58	58,0	54,0	10,2
10EDP 60	60,0	56,0	10,2
10EDP 63	63,0	59,0	10,2
10EDP 65	65,0	61,0	10,2
10EDP 70	70,0	66,0	10,2
10EDP 75	75,0	71,0	15,2
10EDP 80	80,0	76,0	10,2

Item code	D H11	d h7	L $^{+0,2}_{0}$
10EDP 80/1	80,0	76,0	15,2
10EDP 85	85,0	81,0	15,2
10EDP 90	90,0	86,0	15,2
10EDP 95	95,0	91,0	15,2
10EDP 100	100,0	96,0	10,2
10EDP 100/1	100,0	96,0	15,2
10EDP 105	105,0	101,0	20,3
10EDP 110	110,0	106,0	20,3
10EDP 115	115,0	111,0	20,3
10EDP 120	120,0	116,0	20,3
10EDP 125	125,0	121,0	15,2
10EDP 125/1	125,0	121,0	20,3
10EDP 130	130,0	126,0	20,3
10EDP 135	135,0	131,0	20,3
10EDP 140	140,0	136,0	20,3
10EDP 150	150,0	146,0	25,4
10EDP 160	160,0	155,0	15,0
10EDP 160/1	160,0	156,0	15,2
10EDP 180	180,0	176,0	25,4
10EDP 200	200,0	195,0	15,0
10EDP 200/1	200,0	196,0	20,3
10EDP 200/2	200,0	196,0	25,4
10EDP 220	220,0	216,0	30,5
10EDP 250	250,0	246,0	20,3
10EDP 250/1	250,0	246,0	30,





10IDP

Operating conditions

Temperature	-40°C to +110°C
Speed	1 m/s
Fluids	air with or without lubrication

Material

POM modifed

Assembly

Eliminate any cutting edges and flash in the housing to permit assembly. The same applies to the rod, a lead-in chamfer should be present instead.

Item code	d f9	D H7	L $^{+0,2}_{0}$
10IDP 8	8,0	11,1	2,5
10IDP 10	10,0	13,1	2,5
10IDP 10/1	10,0	13,1	4,0
10IDP 12	12,0	15,1	4,0
10IDP 12/1	12,0	16,0	9,7
10IDP 14	14,0	17,1	4,0
10IDP 14/1	14,0	18,0	9,7
10IDP 15	15,0	18,1	4,0
10IDP 16	16,0	19,1	4,0
10IDP 16/1	16,0	20,0	9,7
10IDP 18	18,0	22,0	9,7
10IDP 20	20,0	23,1	4,0
10IDP 22	22,0	25,1	4,0
10IDP 25	25,0	28,1	4,0
10IDP 28	28,0	31,1	4,0
10IDP 30	30,0	33,1	4,0
10IDP 32	32,0	35,1	4,0
10IDP 35	35,0	38,1	4,0
10IDP 36	36,0	39,1	4,0
10IDP 40	40,0	43,1	4,0
10IDP 50	50,0	53,1	4,0

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