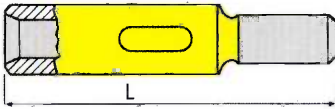


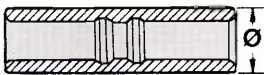
# Auxiliary tools

## Crossover adapter



Thread		Length		Diameter		Product No.	Product code	Weight approx. kg
Female	Male	mm	inch	mm	inch			
R25	R32	185	7¼	45	1¾	90580107	302-2045-03,00	1.3
R32	R38	210	8¼	45	1¾	90500722	303-2045-04,00	1.5
R32	T38	220	8⅝	45	1¾	90504217	303-2045-35,00	1.5
R38	R32	245	9⅝	55	2⅝ <sub>32</sub>	90900015	304-2055-03,00	2.2
R38	T38	245	9⅝	55	2⅝ <sub>32</sub>	90504088	304-2057-35,00	2.4
T38	R32	247	9¾	57	2¼	90503703	335-2057-03,00	2.2
T38	R38	280	11	57	2¼	90500807	335-2057-04,00	2.7
T38	T45	285	11¼	57	2¼	90503941	335-2057-36,00	2.9
T45	T38	260	10¼	63	2⅝ <sub>32</sub>	90504244	336-2063-35,00	2.9
T45	T51	285	11¼	63	2⅝ <sub>32</sub>	90503942	336-2063-37,00	3.6
T51	T45	285	11¼	71	2⅝ <sub>32</sub>	90504330	337-2071-36,00	4.0

## Crossover coupling



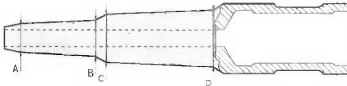
Thread	Length		Diameter		Product No.	Product code	Weight approx. kg
	mm	inch	mm	inch			
R25-R32	160	6⅝ <sub>16</sub>	44	1 <sup>23</sup> / <sub>32</sub>	90003109	302-1044-03,00	1.2
R28-R32	160	6⅝ <sub>16</sub>	44	1 <sup>23</sup> / <sub>32</sub>	90003108	307-1044-03,00	1.2
R32-R38	170	6¾	55	2⅝ <sub>32</sub>	90000847	303-1055-04,00	2.0
R32-T38	170	6¾	55	2⅝ <sub>32</sub>	90002533	303-1055-35,00	2.0
R38-T38	180	7⅞	55	2⅝ <sub>32</sub>	90002238	304-1055-35,00	1.9
T38-T45	180	7⅞	60	2⅝ <sub>8</sub>	90503898	335-1061-36,00	2.3
T45-T51	225	8⅞	72	2 <sup>27</sup> / <sub>32</sub>	90501060	336-1072-37,00	4.0
T38-TC45	175	6⅞	55	2⅝ <sub>32</sub>	90515632	335-1055-70,00	1.8

## Recovery pike



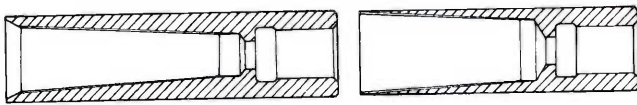
Thread		Product No.	Product code		Weight approx. kg
mm	inch		Rope thread	T thread	
32	1¼	90000331	9002,49		0.5
38	1½	90001971		9250,49	1.0
45	1¾	90002079		9253,49	1.3
51	2	90002872		9265,49	2.3

## Recovery pike



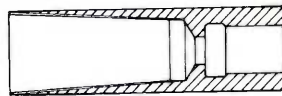
API Reg. Pin	A		B		C		D		Product No.	Product code	Weight approx. kg
	mm	inch	mm	inch	mm	inch	mm	inch			
<b>For TDS tubes</b>											
ST58	22	7/8	29	1 5/32	50	1 31/32	59	2 5/16	94000061	9268,49	4.5
ST68	18	23/32	43	1 1/16	60	2 3/8	71	2 25/32	90510783	9277,49	7.7

## Recovery sleeve



Thread	Outer diam.		Product No.	Product code		Weight approx. kg
	mm	inch		Rope thread	T thread	
<b>For extension rods</b>						
R32	32	1 1/4	90510880	9041,49		1.7
R/T38	38	1 1/2	90510881	9042,49		3.1
R/T38	38	1 1/2	90510882		9043,49	2.1
T45	45	1 3/4	90510883		9044,49	5.8
T51	51	2	90510884		9045,49	8.3
<b>For couplings</b>						
32	44	1 23/32	90510880	9041,49		1.7
45	63	2 15/32	90510883		9044,49	5.8
51	72	2 27/32	90510884		9045,49	8.3
<b>For Speedrods</b>						
45	65	2 9/16	90510883		9044,49	5.8
51	72	2 27/32	90510884		9045,49	8.3

## Recovery sleeve for TDS tubes



Thread	Tube OD		D		Product No.	Product code	Weight approx. kg
	mm	inch	mm	inch			
<b>For TDS tubes</b>							
ST58	76	3	80	3 5/32	94000012	9269	4.9

## Rod wrench



9061



9066

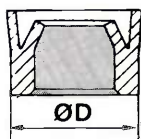


9092, 9093, 9094

Rod dimension	Product No.	Product code	Weight approx. kg
22 mm (7/8") hex.	90000359	9061,49	4.5
22 mm (7/8") hex., Integrals	90000879	9066,49	1.8
25 mm (1") hex., Ø 32 mm (1 1/4")	90002028	9092,49	3.0
32 mm (1 1/4") hex., Ø 38 mm (1 1/2")	90002029	9093,49	3.6
38 mm (1 1/2") hex., Ø 45 mm (1 3/4")	90002030	9094,49	3.7

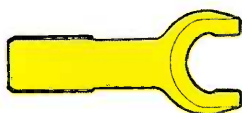
# Auxiliary tools

## Shank seal



Tube diameter		Outer diameter		Product No.	Product code
mm	inch	mm	inch		
5	3/16	10	13/32	90002182	9232
6.5	1/4	9.3	23/64	90002047	9159-06
8	5/16	14	9/16	90000378	9150-08
8	5/16	16	5/8	90002572	9151-08
10	13/32	17	21/32	90002571	9151-10
12.7	1/2	22	7/8	90002587	9152-12
16	5/8	22	7/8	90001709	9153-16
14.3	9/16	22	7/8	90000466	9156-14
19	3/4	27	1 1/16	90002008	9158-19
23	29/32	34	1 11/32	90504645	9158-23

## Thread wear gauge



Rope thread		Product No.	Product code	Weight approx. kg
mm	inch			
<b>For extension rods</b>				
25	1	90000367	9121,49	0.4

## Thread grease



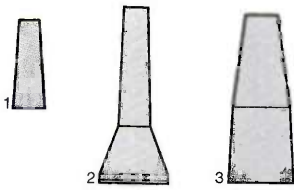
Acinol grease	Product No.	Product code
4.5 kg (10 lbs) package	90000382	9201,49
18 kg (40 lbs) package	90002915	9210,49
50 kg (110 lbs) package	90503915	9200,49

## Chuck bushing gauge



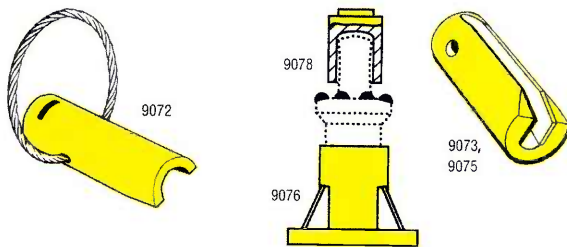
Bushing		Product No.	Product code
mm	inch		
19	3/4	90002667	9131
22	7/8	90002668	9132
25	1	90002669	9133

## Plastic blast hole plug



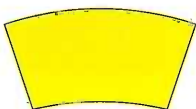
Illustr. No.	Hole diameter		Product No.	Product code
	mm	inch		
1	30-40	1 <sup>3</sup> / <sub>16</sub> -1 <sup>9</sup> / <sub>16</sub>	90000328	9202
	40-50	1 <sup>9</sup> / <sub>16</sub> -1 <sup>31</sup> / <sub>32</sub>	90000329	9203
2	50-75	1 <sup>31</sup> / <sub>32</sub> -2 <sup>15</sup> / <sub>16</sub>	90000397	9204
	51	2	90003211	9207
	64	2 <sup>1</sup> / <sub>2</sub>	90002315	9205
3	76	3	90503386	9208
	75-120	2 <sup>15</sup> / <sub>16</sub> -4 <sup>3</sup> / <sub>4</sub>	90003083	9206

## Knock-off tool



Rod diam. hex.		Product No.	Product code	Weight approx. kg
mm	inch			
<b>Pilot rod</b>				
-	-	90000318	9072,49	4.6
<b>Pilot adapter</b>				
-	-	90000928	9076,49	6.6
-	-	90000930	9078,49	2.1
<b>Tapered rod</b>				
22	<sup>7</sup> / <sub>8</sub>	90504619	9073,49	1.1
25	1	90504620	9075,49	1.0

## Shim



Description	Product No.	Product code
Shim for 7° taper and 12° taper	90503908	9162,49