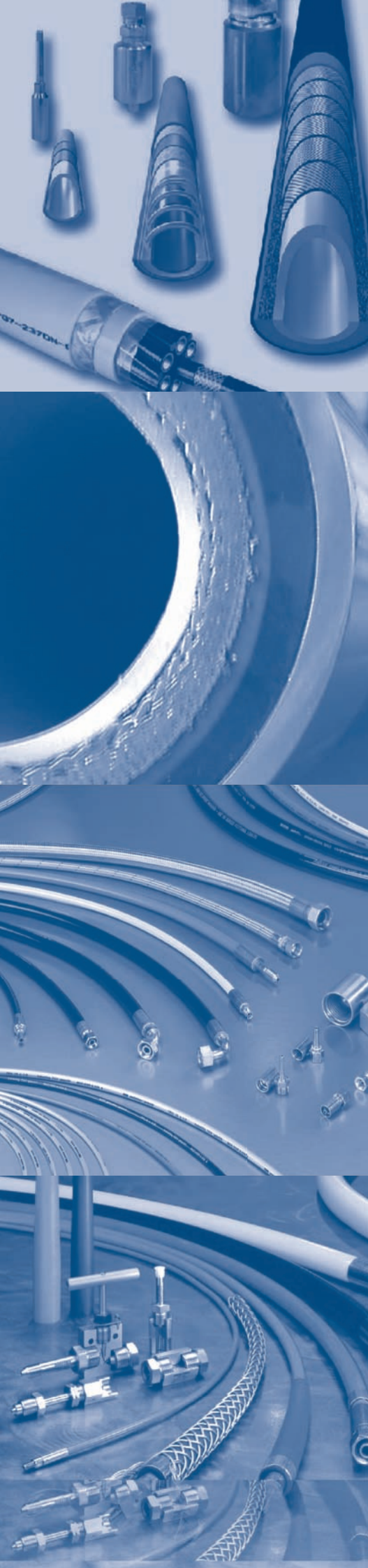




Group 2

Thermoplastic Hoses

Teflon Hoses

Water Jetting Hoses



FLUID CONTROL[®]

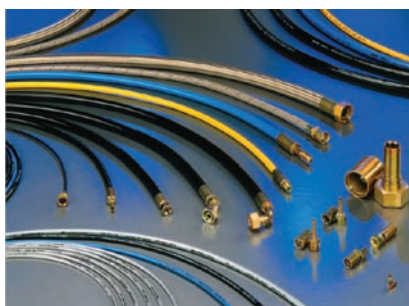
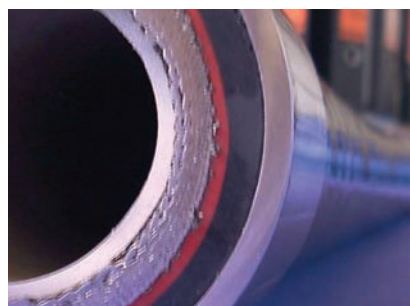
PAGE	CONTENTS
3-5	Selection Tables for Hoses and Fittings
6	Micro Hoses, 2020N, Mini Control System thermo-plastic
7	Teflon Hoses (PTFE)
8	Medium Pressure, Type 518C, 550H Hydraulic
9	Medium Pressure, Type 540N
10	High Pressure, Type 520N, 528N Hydraulic, Gases, Non-conductive
11	High Pressure, Type 590, 575X Hydraulic
12	High Pressure, Type AS10, AS13, Hydraulic, Grease, Gases
13	High Pressure, Type HP, 2040N Hydraulic, Grease, Gases, Spray Paint
14	High Pressure, Type 2040H, 2370N/H Hydraulic
15	High Pressure, Type 2370M, 2244N, 2245N
16	High Pressure, 714 Spray Paint, Hydraulic, Type 715 Spray Paint, Hydraulic
17	Ultra high Pressure, Type 2448N (V91) Umbilical Hose
18	Ultra high Pressure, Type 2380N, 2380M, 2388N Hydraulic
19	Ultra high Pressure, Type 2X80N, 2390N (V91) Hydraulic
20	Ultra high Pressure, Type 2440D/N, 2640D/N
21	Black Eagle Family + Colorgard™
22	Golden Eagle Family + Colorgard™
23	Phalcon + Colorgard™
24	Water Jetting, Type 2240D, 2240M
25	Water Jetting, Type 2388N "Blueline", 2580N "Blueline"
26	Water Jetting, Type 2440D/N, 2440M
27	Water Jetting, Type 2640D/N
28	Water Jetting, Type 2740D, 2840D
29-33	Chemical table

Symbol Key

#												Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m		
2388N-04V12W	6.3	1/4	-04	13.3	1280	18560	3200	46400	80	0.30		BS
Part No	Inside Diameter			Out. Dia.	Working Pressure		Burst Pressure		B. Radius	Weight		

 Available for rental

Fluid Control is now a Approved Collaborator for Parker Hannifin. We hold in stock a wide range of thermoplastic hoses, as well as other Parker products.



Selection Table for Hoses

Mpa multiplied by 10 = Bar (1 Mpa = 10 Bar)

Hose Dimension															
inch	5/64	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1¼	1½	2	
mm	2.0	3.2	4.0	4.8	6.4	7.9	9.5	12.7	15.9	19.0	24.4	31.8	38.1	50.8	
dash	-012	-02	-025	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	
DN	2	3	4	5	6	8	10	12	16	20	25	32	40	50	

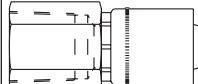
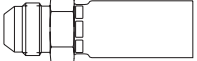
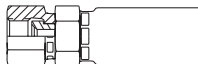
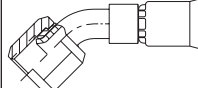
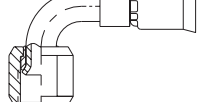
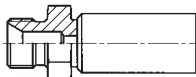
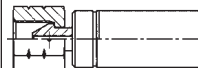
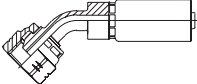
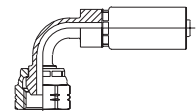
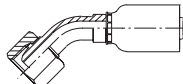
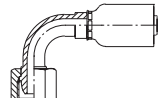
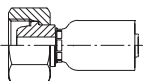
Micro Hoses		Working Pressure Mpa													Fittings Series
2020N	63	53	50												EX
Medium-pressure Hoses															
518C		17.5		21	19	17.5	15.5	15.5	10.5	8.5	7				51/55/56/58
550H				22.5	21	17.5	15.5	14	10	8.5	7				55/56/58
55LT		20		22.5	21	17.5	15.5	14		8.5					55/56/58
510A				21	19	17.5	15.5	14		8.5					51/55/56
High-pressure Hoses															
520N				34.5	34.5	31	27.5	24	19						55/56
528N				34.5	34.5	31	27.5	24							55/56
580N					34.5		27.5	24	19	15.5	14				58
588N					34.5		27.5	24	19	15.5	14				58
590				34.5	34.5		27.5	24	21	17.5	14				55/56/58
575X				34.5	34.5		34.5	34.5		34.5	34.5				55/56/58H
HP/HP8/HP8X				69	69		55								HP
2022NO					69		55								NX-OF
57CR								34.5			34.5				CR
2040N		35		34	31	25	24	18.5	14	12.5	10				56/PX
2040H				34	31	25	24	18.5	14	12.5	10				56/PX
2240N					43										RX
2245N					45	40	37.5	35	33	30	27.5	27.5			8X/NX
2370N/2370H					46.5	44	42	35							NX/RX/9X
Ultra-high-pressure Hoses															
2244N			75				53.5	55							8X
2370N							69								RX
2380N					70	62.5	57.5	55							8X
2388N					80										8X
2390NV91							44.5	41.5		29	28				9X
2X80N					72.0		70			45					8X/LX
2440D/2440N			220	180	164	150	140	130		100	90				LX
2448NV91					103		103*								8X/ *
2640D/2640N			280	250		210		180		140			69	69	5X
Teflon Hoses PTFE/FEP															
919U				21											91N
2030T				27.5	24	20	17.5	15	12.5	10	8				YX
2033T					27.5	25	22.5	20	17.5	15	11				PX/YX
Paint Spray Hoses															
714				36	31		22.5	19							PX
715		35		34	48		38	29	14	12.5	10				HPX
Water Jetting Hoses															
2240D		110	120	100	100	90									TX/AX
2380N					110	100									KX
2244N							86	86							KX
2388N					128			110							BS
2580N				160	140	120									BL
2440D/2440N			220	180	164	150	140	130		100	90				LX
2640D/2640N			280	250		210		180		140	120				HX/5X
2740D			300	280		250		200							HX
2840D				400		300		250							WX

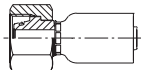
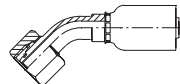
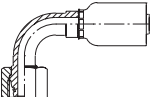
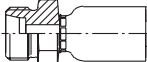
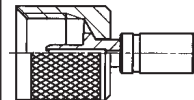
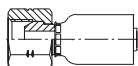
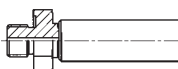
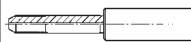
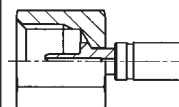
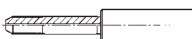
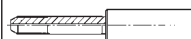
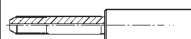
* Ask us about fittings

Selection Table for Fittings

2

	01	51	54	55	56	58	5X	8X	9X	91N
NPTF Male 60° Cone	01	X		X	X	X		X	X	X
NPTF Female-rigid	02									
JIC Male-37° Cone	03	X		X	X					X
UNF Male/O-ring	05			X	X			X		
JIC-37° Cone	06	X		X	X	X		X	X	X
Metric Swivel Strong Series 90° Elbow O-ring	1C			X	X	X				
JIC 37° Cone 45° Elbow	37			X	X					X
JIC 37° Cone 90° Elbow	39	X		X	X	X				X
BSP Male-60° Cone	3B							X		
BSP Swivel 60° Cone	92	X	X	X	X	X		X		X
UNF Swivel 59° Cone	AY						X			
BSP Swivel 45° Elbow	B1	X	X	X	X	X				
BSP Swivel 90° Elbow	B2	X	X	X	X	X				
Metric Swivel Light Series Cone	C3	X	X	X	X		X			X
Metric Swivel Light Series Cone 45° Elbow	C4	X	X	X	X					
Metric Swivel Light Series Cone 90° Elbow	C5	X	X	X	X					
Metric Swivel Strong Series	C6	X		X	X	X				
Metric Swivel Strong Series O-ring	C9			X	X	X	X	X		
Metric Swivel Light Series O-ring	CA		X	X	X	X				
Metric Swivel Light Series 45° Elbow O-ring	CE		X	X	X	X				
Metric Swivel Light Series 90° Elbow O-ring	CF		X	X	X	X				
Metric Male 24° Cone Light Series	D0	X		X	X	X				X
Metric Male 24° Cone Strong Series	D2	X		X	X	X				
BSP Male	D9	X		X	X	X		X		X
M16X2 Swivel (Knurled nut)	R8									
BSP Swivel 60° Cone	U0				X			X		
BSP Male- For USIT Ring	Y9									
AE Fitting High Pressure 59° Cone UNF-LH	YA						X			
Metric Swivel Nut	YR									
AE Fitting Medium Pressure 59° Cone UNF-LH	Y2							X		
AE Fitting High Pressure 59° Cone UNF-LH	Y4									
AE Fitting High Pressure 59° Metric cone	YM						X			

01 NPTF Male - 60° Cone  <table><tr><td>51</td><td>BL</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>BS</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	BL	54	EX	55	HP	56	BS	58	NX	5X	PX	8X	RX	91N	YX	93N		02 NPTF Female - rigid  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		03 JIC Male - 37° Cone  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		05 UNF Male / O-Ring  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	BL																																																																										
54	EX																																																																										
55	HP																																																																										
56	BS																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
06 JIC - 37° Cone UNF Swivel Nut  <table><tr><td>51</td><td>AX</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>9X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AX	54	EX	55	HP	56	LX	58	NX	9X	PX	8X	RX	91N	YX	93N		37 JIC - 37° Cone 45° Elbow UNF Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		39 JIC - 37° Cone 90° Elbow UNF Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		3B BSP Male - 60° Cone  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	AX																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
9X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
92 Sealing Head (60°) BSP Swivel Nut  <table><tr><td>51</td><td>BS</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>KX</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>BL</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>9X</td><td></td></tr></table>	51	BS	54	EX	55	KX	56	LX	58	NX	BL	PX	8X	RX	91N	YX	9X		AY 59° Sealing Cone UNF Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>HX</td></tr><tr><td>55</td><td>KX</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	HX	55	KX	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		B1 Sealing Head (60°) BSP Swivel Nut 45° Elbow  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		B2 Sealing Head (60°) BSP Swivel Nut 90° Elbow  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	BS																																																																										
54	EX																																																																										
55	KX																																																																										
56	LX																																																																										
58	NX																																																																										
BL	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
9X																																																																											
51	AB																																																																										
54	HX																																																																										
55	KX																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
C3 Sealing Head Light Series Metric Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		C4 Sealing Head 45° Elbow Light Series Metric Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		C5 Sealing Head 90° Elbow Light Series Metric Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		C6 Sealing Head Heavy Series Metric Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											

C924° Sealing Cone / O-Ring Heavy Series Metric Swivel Nut ISO 12151-2  <table><tr><td>51</td><td>AX</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>BS</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>9X</td><td>YX</td></tr><tr><td>BL</td><td>HX</td></tr></table>	51	AX	54	EX	55	BS	56	LX	58	NX	5X	PX	8X	RX	9X	YX	BL	HX	CA24° Sealing Cone / O-Ring Light Series Metric Swivel Nut ISO 12151-2  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		CE24° Sealing Cone / O-Ring 45° Elbow Light Series Metric Swivel Nut ISO 12151-2  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		CF24° Sealing Cone / O-Ring 90° Elbow Light Series Metric Swivel Nut ISO 12151-2  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	AX																																																																										
54	EX																																																																										
55	BS																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
9X	YX																																																																										
BL	HX																																																																										
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
D0Metric Male 24° Cone Light Series ISO 12151-2  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		D2Metric Male 24° Cone Heavy Series ISO 12151-2  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		D9BSP Male DIN 3852 Shape A  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		R8Quick Connect Fitting Metric Swivel Nut Knurled  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
U0Sealing Head (60°) BSP Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		Y9BSP Male - for USIT Ring  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		YAHigh Pressure Connector 59° Cone UNF - Left Hand Thread  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		YRQuick Connect Fitting Metric Swivel Nut  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N	
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
Y2Medium Pressure Connector 59° Cone UNF - Left Hand Thread  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>YX</td></tr><tr><td>93N</td><td></td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	YX	93N		Y4High Pressure Connector 59° Cone UNF - Left Hand Thread  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>HX</td></tr><tr><td>93N</td><td>WX</td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	HX	93N	WX	YMHHigh Pressure Connector 59° Metric Cone Metric - Left Hand Thread  <table><tr><td>51</td><td>AB</td></tr><tr><td>54</td><td>EX</td></tr><tr><td>55</td><td>HP</td></tr><tr><td>56</td><td>LX</td></tr><tr><td>58</td><td>NX</td></tr><tr><td>5X</td><td>PX</td></tr><tr><td>8X</td><td>RX</td></tr><tr><td>91N</td><td>HX</td></tr><tr><td>93N</td><td>WX</td></tr></table>	51	AB	54	EX	55	HP	56	LX	58	NX	5X	PX	8X	RX	91N	HX	93N	WX																			
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	YX																																																																										
93N																																																																											
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	HX																																																																										
93N	WX																																																																										
51	AB																																																																										
54	EX																																																																										
55	HP																																																																										
56	LX																																																																										
58	NX																																																																										
5X	PX																																																																										
8X	RX																																																																										
91N	HX																																																																										
93N	WX																																																																										

Type 2020N Mini Control System



2

APPLICATIONS:

High-pressure hose for use with petroleum and synthetic hydraulic oils and gases. Special hose for Mini Control pressure measurement equipment (minimess). Supplied with fittings as specified on the next page. Max length change is +2% / -4% at working pressure.

*** Safety factor reduced for diagnostic applications.**

CONSTRUCTION:

Covering: Black Polyamide
Reinforcement: 1 layer braided synthetic fiber
Internal: Polyamide

TEMPERATURE RANGE:

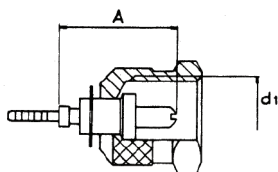
±40°C to +100°C for synthetic and oil-based hydraulic oils

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2020N-012V30	2.0	5/64	-012	4.9	475	6885	1900	27550	20	0.016	EX
2020N-02V30	2.9	1/8	-02	6.0	400	5800	1600	23200	30	0.023	EX
2020N-025V30	4.0	5/32	-025	8.1	440	6380	1760	25520	40	0.042	EX
2020N-012V50	2.0	5/64	-012	4.9	* 630	9135	1900	27550	20	0.016	EX
2020N-02V50	2.9	1/8	-02	6.0	* 530	7685	1600	23200	30	0.023	EX
2020N-025V50	4.0	5/32	-025	8.1	* 500	7250	1760	25520	40	0.042	EX

SEE PAGE 5-19 FOR FITTINGS

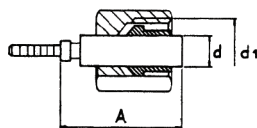
Mini control system – HOSE COUPLINGS FOR USE WITH HOSE type 2020N

M16X2 SCREW LOCK COUPLING



Part No	A mm	d mm	d1 mm	P.max bar
801.10.162	19		M16x2	640

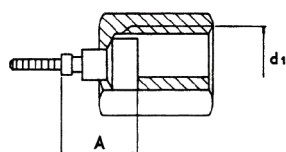
COUPLING WITH PIPE SOCKET



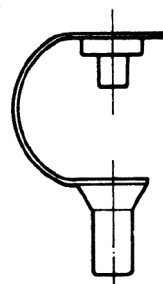
801.32.006	24	6	M14x1,5	640
801.32.008	24	8	M16x1,5	640

Part No of the couplings are complete with pressure sleeve, and includes sleeve with dust plug M16x2 screw lock couplings.

PRESSURE GAUGE COUPLING



801.50.204	25		1/4" BSP	640
801.50.208	25		1/2" BSP	640



OTHER SIZES, THREAD TYPES AND MATERIALS AVAILABLE ON REQUEST



Type 2030T PTFE Teflon Hose

2

APPLICATIONS:

There are currently no known solvents for PTFE. Can be used for steam, acids, alkalis, articles of food, oils and corroding oils and corroding substances.
PTFE is highly resistant to natural degradation and aging and does not absorb water. The exceptional low friction resistance minimizes loss of pressure in the hoses.
Type 2030T is well suited for spray painting.

CONSTRUCTION:

Covering: Stainless steel wire braid (reinforcement)
Reinforcement: 1 layer stainless steel wire braiding
Internal: Polytetrafluoroethylene (PTFE)

TEMPERATURE RANGE:

±50°C to +150°C (+230°C up to 20 bar)

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2030T-03V70	4.8	3/16	-03	7.8	275	3990	1100	15950	50	0.09		BPX	
2030T-04V70	6.3	1/4	-04	9.5	240	3480	960	13920	75	0.13		BPX	
2030T-05V70	7.9	5/16	-05	11.5	200	2900	800	11600	100	0.17		BPX	
2030T-06V70	9.5	3/8	-06	13.3	175	2540	700	10150	120	0.19		BPX	
2030T-08V70	12.7	1/2	-08	16.7	150	2180	600	8700	135	0.29		BPX	
2030T-10V70	15.9	5/8	-10	20.0	125	1810	500	7250	160	0.34		BPX	
2030T-12V70	19.0	3/4	-12	23.5	100	1450	400	5800	200	0.41		BPX	
2030T-16V70	25.4	1	-16	29.0	80	1160	320	4640	250	0.51		BPX	



Type 2033T PTFE Teflon Hose

APPLICATIONS:

There are currently no known solvents for PTFE. Can be used for steam, acids, alkalis, articles of food, oils and corroding oils and corroding substances.
PTFE is highly resistant to natural degradation and aging and does not absorb water. The exceptional low friction resistance minimizes loss of pressure in the hoses.
Type 2030T is well suited for spray painting.

CONSTRUCTION:

Covering: Stainless steel wire braid (reinforcement)
Reinforcement: 2 layers stainless steel wire braiding
Internal: Polytetrafluoroethylene (PTFE)

TEMPERATURE RANGE:

±50°C to +150°C (+230°C up to 20 bar)

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2033T-04V70	6.3	1/4	-04	11.0	275	3990	1100	15950	75	0.23	PX		
2033T-05V70	7.9	5/16	-05	13.2	250	3630	1000	14500	100	0.26	PX		
2033T-06V70	9.5	3/8	-06	15.0	225	3260	900	13050	120	0.34	PX		
2033T-08V70	12.7	1/2	-08	18.8	200	2900	800	11600	135	0.47	PX		
2033T-10V70	15.9	5/8	-10	21.5	175	2540	700	10150	160	0.53	PX		
2033T-12V70	19.0	3/4	-12	25.5	150	2180	600	8700	200	0.69	PX		
2033T-16V70	25.4	1	-16	31.0	125	1810	500	7540	250	0.81	PX		



Type 518C Non-conductive Hose Specifications Exceed SAE 100 R7

APPLICATIONS:

For medium-pressure hydraulic systems with petroleum or synthetic hydraulic oils, where it is required that the hose must not be electrically conductive. Well suited for hydraulic systems at high-voltage installation working platforms. Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Special PFX, orange
Reinforcement: 1 layer braided synthetic fiber
Internal: Polyester Elastomer

TEMPERATURE RANGE:

+40°C to +100°C for hydraulic oils
+40°C to +57°C for synthetic oils and water-based fluids

Insulation resistance: SAE J517 (less than 50 µA leakage during 75,000 volts per foot)

# Part No											Fitting Series
	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
518C-02	3.2	1/8	-02	8.6	175	2 500	690	10 000	13	0.05	58
518C-03	4.8	3/16	-03	10.7	210	3 000	830	12 000	19	0.07	51/55/56
518C-04	6.3	1/4	-04	12.0	190	2 750	760	11 000	38	0.08	51/55/56
518C-05	7.9	5/16	-05	14.5	175	2 500	690	10 000	44	0.11	51/55/56
518C-06	9.5	3/8	-06	16.0	155	2 250	620	9 000	51	0.14	51/55/56
518C-08	12.7	1/2	-08	20.6	155	2 250	620	9 000	76	0.22	51/55/56
518C-10	15.9	5/8	-10	24.9	105	1 500	420	6 000	102	0.30	51/58
518C-12	19.1	3/4	-12	27.4	85	1 250	345	5 000	152	0.31	51/55/56
518C-16	25.4	1	-16	33.5	70	1 000	275	4 000	203	0.40	51/55/56



Type 550H, SAE 100 R7 High Performance

APPLICATIONS:

Medium-pressure systems, also for mobile hydraulics and agriculture machinery. Also available as dual- or multi-hose or "Non-Conductive" hose. Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black pin-pricked Polyurethane
Reinforcement: 2 layers braided synthetic fiber
Internal: Hytrel

TEMPERATURE RANGE:

+70°C to +100°C for water and water-based oils
+40°C to +100°C for petroleum and synthetic-based oils and gases

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
550H-03	4.8	3/16	-03	10.9	225	3250	900	13000	19	0.08	55/56
550H-04	6.3	1/4	-04	13.0	210	3000	830	12000	32	0.10	55/56
550H-05	7.9	5/16	-05	14.5	175	2500	700	10000	44	0.11	55/56
550H-06	9.5	3/8	-06	16.5	155	2250	620	9000	51	0.14	55/56
550H-08	12.7	1/2	-08	20.6	140	2000	560	8000	76	0.21	55/56
550H-10	15.9	5/8	-10	24.9	105	1500	420	6000	102	0.30	56/58
550H-12	19.0	3/4	-12	26.9	85	1250	345	5000	127	0.31	55/56
550H-16	25.4	1	-16	33.3	70	1000	275	4000	203	0.40	55/56



Type 540N Medium-pressure Hose Specifications Exceed SAE 100 R7

2

APPLICATIONS:

Medium-pressure systems for oil and synthetic hydraulic fluids and certain chemicals.

Also suitable for agricultural machines, robotic systems and for use with fire resisting fluids.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black pin-pricked Polyurethane

Reinforcement: 1 layer braided synthetic fiber

Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for oil, water and synthetic hydraulic fluids

#															Fitting series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m					
540N-02	3.2	1/8	-02	8.4	175	2500	690	10000	13	0.05					58
540N-03	4.8	3/16	-03	10.5	210	3000	830	12000	19	0.08					55/56
540N-04	6.3	1/4	-04	12.6	190	2750	760	11000	38	0.10					55/56
540N-05	7.9	5/16	-05	14.1	175	2500	690	10000	44	0.12					55/56
540N-06	9.5	3/8	-06	16.0	155	2250	620	9000	51	0.14					55/56
540N-08	12.7	1/2	-08	20.1	140	2000	560	8000	76	0.21					55/56
540N-12	19.1	3/4	-12	26.3	85	1250	345	5000	152	0.25					55/56

Also available in twin design and as multiline.



Type 520N Standard Hydraulic Hose Specifications Exceed SAE 100 R8

APPLICATIONS:

High-pressure hose for use with oil-based and synthetic hydraulic oils, as well as gases.

Low volumetric expansion and small outer diameter due to aramid fiber reinforcement.

Also available as dual- or multi-hose.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black pin-pricked Polyurethane
Reinforcement: 1 layer braided synthetic aramid fiber
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for synthetic and oil-based hydraulic oils

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
520N-03	4.8	3/16	-03	10.9	345	5000	1380	20000	38	0.07	55/56
520N-04	6.3	1/4	-04	13.0	345	5000	1380	20000	51	0.10	55/56
520N-05	7.9	5/16	-05	14.5	310	4500	1240	18000	64	0.12	55/56
520N-06	9.5	3/8	-06	16.5	275	4000	1100	16000	64	0.12	55/56
520N-08	12.7	1/2	-08	20.6	240	3500	960	14000	102	0.20	55/56



Type 528N Standard Hydraulic Hose Non-conductive Hose Specifications Exceed SAE 100 R8

APPLICATIONS:

High-pressure hose for use with oil-based and synthetic hydraulic oils, as well as gases.

Low volumetric expansion and small outer diameter due to aramid fiber reinforcement. Not electrically conductive according to SAE J517 (less than 50 µA at 75,000 Volts per foot). Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Orange Polyurethane
Reinforcement: 1 layer braided synthetic aramid fiber
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for synthetic and oil-based hydraulic oils

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
528N-03	4.8	3/16	-03	10.9	345	5000	1380	20000	38	0.07	55/56
528N-04	6.3	1/4	-04	13.0	345	5000	1380	20000	51	0.10	55/56
528N-05	7.9	5/16	-05	14.5	310	4500	1240	18000	64	0.12	55/56
528N-06	9.5	3/8	-06	16.5	275	4000	1100	16000	64	0.12	55/56
528N-08	12.7	1/2	-08	20.6	240	3500	960	14000	102	0.20	55/56



Type 590 Hybrid High Pressure Hose Specifications Exceed SAE 100 R2

APPLICATIONS:

High-pressure hose for use with oil-, water- and synthetic-based hydraulic oils. Ideal for applications where small bend radius and excellent aging characteristics are important.
Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: 1 layer aramid and 1 layer steel wire braiding
Internal: Polyester Elastomer

TEMPERATURE RANGE:

+40°C to +121°C for oil-based hydraulic oils
+40°C to +57°C for synthetic and water-based oils

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
590-03	4.8	3/16	-03	10.9	345	5000	1380	20000	38	0.15	55/56
590-04	6.3	1/4	-04	13.0	345	5000	1380	20000	44	0.21	55/56
590-06	9.5	3/8	-06	16.3	275	4000	1100	16000	57	0.29	55/56
590-08	12.7	1/2	-08	20.1	240	3500	960	14000	83	0.37	55/56
590-10	15.9	5/8	-10	24.6	210	3000	840	12000	152	0.57	56/58
590-12	19.1	3/4	-12	27.9	175	2500	690	10000	178	0.66	56/58
590-16	25.0	1	-16	36.1	140	2000	560	8000	203	0.88	56/58



Type 575X High Pressure Hose Low Volumetric Expansion

APPLICATIONS:

High-pressure hose for use with oil-based and synthetic hydraulic oils.

Especially designed for applications where low volumetric expansion and stable pressure is required.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black special Polyurethane
Reinforcement: 1 or 2 layers braided synthetic aramid fiber
Internal: Polyamide

TEMPERATURE RANGE:

+40°C to +100°C for synthetic and oil-based hydraulic oils
max. 70°C for water or methanol-based fluids

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
575X-03	4.8	3/16	-03	10.8	345	5000	1380	20000	38	0.07	55/56
575X-04	6.3	1/4	-04	12.8	345	5000	1380	20000	51	0.10	55/56
575X-06	9.5	3/8	-06	16.3	345	5000	1380	20000	76	0.13	55/56
575X-08	12.7	1/2	-08	20.6	345	5000	1380	20000	102	0.20	55/56
575X-12	19.0	3/4	-12	29.2	345	5000	1380	20000	203	0.53	58H
575X-16	25.4	1	-16	40.4	345	5000	1380	20000	254	0.80	58H



Type AS10 Standard Hydraulic Hose Specifications Equivalent to SAE 100 R11

APPLICATIONS:

High-pressure hose for use with oil-based and synthetic hydraulic oils, as well as gases.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

Also available in other colors.

CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: 2 layers braided aramid fiber
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for continuous use

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
AS10-03	5.0	3/16	-03	13.5	690	10000	2760	40000	100	0.14	AS10
AS10-04	6.0	1/4	-04	14.8	690	10000	2760	40000	127	0.15	AS10
AS10-05	8.0	5/16	-05	18.3	550	8000	2200	32000	152	0.20	AS10
AS10-06	10.0	3/8	-06	19.3	520	7500	2070	30000	175	0.25	AS10
AS10-08	13.0	1/2	-08	22.6	415	6000	1650	24000	203	0.35	AS10
AS10-10	16.0	5/8	-10	27.9	345	5000	1380	20000	279	0.42	AS10
AS10-16	25.0	1	-16	36.2	345	5000	1380	20000	356	0.52	AS10



Type AS13 Standard Hydraulic Hose Specifications Exceed SAE 100 R8

APPLICATIONS:

High-pressure hose for use with oil-based and synthetic hydraulic oils, as well as gases.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium. Also available with orange non-electrically conductive covering.

CONSTRUCTION:

Covering: Black pin-pricked Polyurethane
Reinforcement: 2 layers braided polyester fiber
Internal: Hytrel

TEMPERATURE RANGE:

±40°C to +95°C for continuous use

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
AS13-03	5.0	3/16	-03	12.7	340	5000	1370	20000	38	0.13	ASC13
AS13-04	6.0	1/4	-04	15.7	340	5000	1370	20000	50	0.19	ASC13
AS13-06	10.0	3/8	-06	18.7	270	4000	1100	16000	63	0.23	ASC13
AS13-08	13.0	1/2	-08	22.6	240	3500	960	14000	100	0.31	ASC13
AS13-10	16.0	5/8	-10	25.9	190	2750	750	11000	150	0.37	ASC13
AS13-12	20.0	3/4	-12	28.7	150	2250	620	9000	200	0.42	ASC13
AS13-16	25.0	1	-16	37.2	140	2000	550	8000	254	0.61	ASC13



Type HP High-pressure Hose

2

APPLICATIONS:

High-pressure hose for hydraulic, pneumatic and lubrication oils - such as high-pressure tools, test equipment, offshore pressure control equipment and offshore oil applications.

HP8 is not electrically conductive.

CONSTRUCTION:

Covering: Polyamide
HP=Blue, HPX=Orange,
Reinforcement: 1 layer braided aramid
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C, max 70°C for water and methanol-based fluids

#												Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m		
HP-3	5.0	3/16	-03	13.2	690	10000	2760	40000	38	0.13	HP	
HP-4	6.0	1/4	-04	15.2	690	10000	2760	40000	64	0.16	HP	
HPX-6	10.0	3/8	-06	18.8	690	10000	2210	32000	76	0.24	HP	
HP8-3	5.0	3/16	-03	13.2	690	10000	2760	40000	38	0.13	HP	
HP8-4	6.0	1/4	-04	15.2	690	10000	2760	40000	64	0.16	HP	
HP8X-6	10.0	3/8	-06	18.8	690	10000	2210	32000	76	0.24	HP	



Type 2040N Multi-use Hose Specifications DIN 20 022 Part 1 DNV Approved

APPLICATIONS:

High-pressure hose for hydraulic systems with petroleum, synthetic or water based hydraulic oils. Also ideal for grease, gases and paint spraying.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: 1 layer steel wire braiding
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for synthetic- and oil-based hydraulic oils

Available in other colors

# Part No											Fitting Series
	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2040N-02V00	3.2	1/8	-02	7.0	350	5075	1400	20300	30	0.07	PX
2040N-03V00	4.8	3/16	-03	9.8	340	4930	1360	19720	30	0.11	56/PX
2040N-04V00	6.3	1/4	-04	11.9	310	4495	1240	17980	40	0.16	56/PX
2040N-05V00	7.9	5/16	-05	14.0	250	3625	1000	14500	50	0.21	56/PX
2040N-06V00	9.5	3/8	-06	15.9	240	3480	960	13920	60	0.24	56/PX
2040N-08V00	12.7	1/2	-08	19.3	185	2680	740	10730	75	0.29	56/PX
2040N-10V00	16.0	5/8	-10	23.5	140	2030	560	8120	110	0.39	PX
2040N-12V00	19.1	3/4	-12	26.7	125	1810	500	7250	170	0.50	PX
2040N-16V00	25.0	1	-16	33.5	100	1450	400	5800	230	0.60	PX



Type 2040H Standard Hydraulic Hose Specifications DIN 20 022 Part 1 DNV Approved

APPLICATIONS:

High-pressure hose for hydraulic systems with synthetic-, water- or petroleum-based hydraulic oils. Good flexibility due to the special construction method. Ideal for lifting equipment, machines and applications requiring high durability.

Also available as dual- or multi-hose.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: 1 layer steel wire braiding
Internal: Polyester Elastomer

TEMPERATURE RANGE:

÷40°C to +100°C for oil-based hydraulic oils
÷40°C to +57°C for synthetic- and water-based oils

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2040H-03V10	4.8	3/16	-03	9.8	340	4930	1360	19720	30	0.12	56/PX
2040H-04V10	6.3	1/4	-04	11.9	310	4495	1240	17980	40	0.17	56/PX
2040H-05V10	7.9	5/16	-05	14.0	250	3625	1000	14500	50	0.21	56/PX
2040H-06V10	9.5	3/8	-06	15.9	240	3480	960	13920	60	0.26	56/PX
2040H-08V10	12.7	1/2	-08	19.3	185	2680	740	10730	75	0.31	56/PX
2040H-10V10	16.0	5/8	-10	23.5	140	2030	560	8120	110	0.43	PX
2040H-12V10	19.1	3/4	-12	26.7	125	1810	500	7250	170	0.53	PX
2040H-16V10	25.0	1	-16	33.5	100	1450	400	5800	230	0.72	PX



Type 2370N/H Universal High Pressure Hose Specifications Exceed DIN 20 022 Part 2 TÜV/CGA/AGA Approved for CNG

APPLICATIONS:

High-pressure hydraulic systems for petroleum- and synthetic-based hydraulic oils and gases and aggressive media. Ideal for hydraulic and rescue tools.

For CNG use, the hose is only sold pre-assembled with fittings including kink guards.

Also available as dual- or multi-hose.

Max length change is +/- 2% at working pressure.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: 2 layers steel wire spiral and 2 layers braided synthetic fiber
Internal H: Polyester Elastomer
Internal N: Polyamide

TEMPERATURE RANGE:

÷40°C to +100°C for oil-based hydraulic oils (to +120°C for shorter periods) V71 has PA11 inside. For paint spraying, use fittings series NX

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2370N-04V10	6.3	1/4	-04	12.4	465	6740	1860	26970	70	0.19	RX
2370N-05V10	8.2	5/16	-05	14.3	440	6380	1760	25520	100	0.25	RX
2370N-06V10	9.7	3/8	-06	16.4	420	6090	1680	24360	120	0.33	9X
2370N-08V10	12.8	1/2	-08	19.6	350	5075	1400	20300	150	0.42	9X
2370N-06V71	9.5	3/8	-06	16.4	690	10000	1725	25000	120	0.33	RX
2370H-08V10	12.8	1/2	-08	19.6	350	5075	1400	20300	150	0.42	9X



Type 2370M (V30) Universal High Pressure Hose Polyflex Hose - ChemJec Specifications Exceed ISO 13628-5

APPLICATIONS:

Withstands high pressure cycles with no signs of stress cracking. Proven to handle methanol. High collapse resistance (HCR) and also providing longer service life. Extremely low permeability. Medium pressure, high temperature, low volumetric expansion hose. Long length subsea umbilical hose. Excellent chemical resistance. Available in long continuous length up to 2,500 m.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black PA12
Reinforcement: High strength wire, synthetic fibre
Internal: Coextruded core tube with fluoropolymer inside

TEMPERATURE RANGE:

-40°C up to 125°C
-40°F up to 257°F

# Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2370M-06V10	9.9	3/8	-06	16.6	430	6250	1725	25000	70	0.33	RX



Type 2244N/2245N High-pressure Hose Specifications Exceed SAE 100 R9/R10

APPLICATIONS:

High-pressure hydraulic systems for petroleum- and synthetic-based hydraulic oils, spray painting, gases and aggressive media. Ideal for hydraulic and rescue tools. 3/4" and 1" hoses are DNV type-approved.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane (Polyurethane from 5/8")
Reinforcement: 2 layers steel wire spiral and 1 layer steel wire braiding
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for oil-based hydraulic oils (to +125°C for shorter periods)

# Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2244N-06V00	9.5	3/8	-06	18.0	535	7760	2150	31175	120	0.50	8X
2244N-08V10	12.7	1/2	-08	22.7	550	7970	2200	31900	150	0.80	8X
2244N-20V30	32.0	1.1/4	-20	44.0	275	3990	1100	15950	400	1.83	NX
2245N-04V00	6.3	1/4	-04	12.5	450	6530	1800	26100	70	0.25	NX
2245N-05V00	8.0	5/16	-05	14.3	400	5800	1600	23200	100	0.32	NX
2245N-06V00	9.5	3/8	-06	17.0	375	5440	1500	21750	120	0.42	NX
2245N-08V00	12.7	1/2	-08	20.7	350	5080	1400	20300	165	0.52	NX
2245N-10V30	15.9	5/8	-10	24.5	330	4780	1320	19140	200	0.72	NX
2245N-12V30	19.0	3/4	-12	28.5	300	4350	1200	17400	240	0.92	NX
2245N-16V30	25.4	1	-16	34.0	275	3990	1100	15950	280	1.15	NX



Type 714 Spray Paint Hose

APPLICATIONS:

Type 714 is a special hose for high-pressure spray paint designed to meet the market demands. The steel wire braiding makes the hose 100% electrically conductive.

Inner tube specially designed for chlorinated solvents. The polyurethane covering provides excellent flexibility and durability. Also excellent for use as a hydraulic hose.

CONSTRUCTION:

Covering: Blue Polyurethane
Reinforcement: 1 layer steel wire braiding
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for synthetic- and oil-based hydraulic oils

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
714-03	4.8	3/16	-03	9.4	360	5250	1440	21000	25	0.12		PX	
714-04	6.3	1/4	-04	11.7	310	4500	1240	18000	37	0.16		PX	
714-06	9.5	3/8	-06	15.1	225	3250	900	13000	50	0.23		PX	
714-08	12.7	1/2	-08	18.3	190	2760	760	11000	75	0.30		PX	



Type 715 Spray Paint Hose

APPLICATIONS:

Type 715 is a special hose for high-pressure spray paint designed to meet the market demands. The steel wire braiding makes the hose 100% electrically conductive.

Inner tube specially designed for chlorinated solvents. The polyurethane covering provides excellent flexibility and durability. Also excellent for use as a hydraulic hose.

CONSTRUCTION:

Covering: Blue Polyurethane
Reinforcement: 2 layers steel wire braiding
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for synthetic- and oil-based hydraulic oils

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
715-04	6.3	1/4	-04	13.7	480	7000	1920	28000	25	0.30		HPX	
715-06	9.5	3/8	-06	17.0	380	5500	1520	22000	37	0.42		HPX	
715-08	12.7	1/2	-08	20.2	290	4250	1160	17000	62	0.51		HPX	



Type 2448N (V91) Umbilical hose

2

APPLICATIONS:

Available in long lengths for use in subsea umbilicals.

CONSTRUCTION:

Covering: Black PA12
Reinforcement: 4 layers steel wire spiral
Internal: Methanol washed PA11

TEMPERATURE RANGE:

÷40°C to +100°C
+70°C for water- or methanol-based fluids

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2448N-04V91	6.0	1/4	-04	13.8	1035	15000	4140	60000	150	0.38	8X
2448N-06V91	10.0	3/8	-06	20.3	1035	15000	4140	60000	190	0.74	*

* FOR COUPLING TYPE, PLEASE CONTACT US

For machines and tools, see group 19



FOR MORE INFORMATION ON COUPLING OPTIONS AND QUALITY OF MATERIALS, PLEASE CONTACT US



Type 2380N

Specifications Exceed SAE R10

APPLICATIONS:

High-pressure hydraulic systems for petroleum- and synthetic-based hydraulic oils.

Ideal for hydraulic and rescue tools.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane (other colors on request)

Reinforcement: 2 layers steel wire spiral and 2 layers steel wire braid

Internal: Polyamide. V91 has methanol-washed PA11

TEMPERATURE RANGE:

±40°C to +100°C for oil-based hydraulic oils, V91 also for methanol-based fluids

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2380N-04V00	6.3	1/4	-04	13.3	700	10150	2800	40600	70	0.32	8X
2380N-04V91	6.4	1/4	-04	13.5	690	10000	2760	40000	70	0.27	LX/8X
2380N-05V00	7.9	5/16	-05	15.7	625	9625	2500	36250	90	0.41	8X

Also available in twin design



Type 2380M - Polyflex Hose - ChemJec

Specifications Exceed ISO 13628-5

APPLICATIONS:

Withstands high pressure cycles with no signs of stress cracking.

Proven to handle methanol. High collapse resistance (HCR) and also providing longer service life. Extremely low permeability.

High pressure, high temperature, low volumetric expansion hose.

Long length subsea umbilical hose. Excellent chemical resistance.

Available in long continuous length up to 3,000 m.

CONSTRUCTION:

Covering: Black PA12

Reinforcement: High strength wire

Internal: Coextruded core tube with fl uoropolymer inside

TEMPERATURE RANGE:

-40°C up to +100°C, short term 125°C

#													Fitting Series
Part No													
	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2380M-04V30	6.4	1/4	-04	13.4	690	10000	2800	40000	230	0.27		8X/LX	
2380M-05V30	8.2	5/16	-05	15.7	600	8700	2400	34800	90	0.34		*	

Also available in twin design

*Consult factory



Type 2388N

Specifications Exceed SAE R10

APPLICATIONS:

High-pressure hydraulic systems for petroleum and synthetic based hydraulic oils. Ideal for hydraulic and rescue tools.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane (other colors on request)

Reinforcement: 2 layers steel wire spiral and 2 layer steel wire braid

Internal: Polyamide

TEMPERATURE RANGE: ±40°C to +100°C for oil-based hydraulic oils

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2388N-04V00	6.3	1/4	-04	13.3	800	11600	3200	46600	80	0.305		8X	

FOR MORE INFORMATION ON COUPLING OPTIONS AND QUALITY OF MATERIALS, PLEASE CONTACT US



Type 2X80N

APPLICATIONS:

High-pressure hydraulic systems for petroleum- and synthetic-based hydraulic oils.
Ideal for hydraulic and rescue tools.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: Steel wire and aramid combination
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +100°C for oil-based hydraulic oils

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2X80N-04V10	6.3	1/4	-04	13.4	700	10150	2800	40600	38	0.237	8X
2X80N-06V10	9.8	3/8	-06	18.6	700	10150	2800	40600	70	0.540	LX
2X80N-12V10	19.8	3/4	-12	30.0	450	6525	1800	26100	100	1.080	LX



Type 2390N (V91)

APPLICATIONS:

High-pressure hydraulic systems for petroleum- and synthetic-based hydraulic oils.
Ideal for hydraulic and rescue tools.

Given pressures are indicative. Maximum working pressure is dependent on temperature and medium.

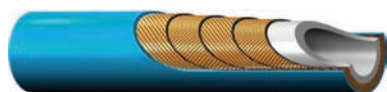
CONSTRUCTION:

Covering: Black Polyurethane
Reinforcement: Steel wire and aramid combination
Internal: Polyamide PA11

TEMPERATURE RANGE:

±40°C to +100°C for oil-based hydraulic oils

#												Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m		
2390N-06V91	9.5	3/8	-06	18.4	445	6454	1780	25800	180	0.33	9X	
2390N-08V91	12.7	1/2	-08	21.3	415	6019	1660	24100	200	0.54	9X	
2390N-12V91	19.1	3/4	-12	29.0	350	5076	1400	20300	300	0.90	9X	
2390N-16V91	25.4	1	-16	35.0	280	4061	1120	16200	340	1.35	9X	
2390N-06V91-10K	9.5	3/8	-06	18.4	712	10320	1780	25800	180	0.33	9X	



Type 2440D/2440N Ultra-high-pressure Hose

2

APPLICATIONS:

For use with petroleum or synthetic hydraulic fluids, gases and chemicals.

Well suited for hydraulic prestress tools, test rigs and offshore oil applications.

The hose is marked with manufacturer, type of hose, working pressure and production date.

Also available as pin-prickled - add -P after Part No.

Also available in a methanol-washed version - V91.

CONSTRUCTION:

Covering: 2440D Blue Polyamide
Covering: 2440N Black Polyamide
Reinforcement: 4 layers steel wire spiral
Internal: 2440D Polyoxymethylene
Internal: 2440N Polyamide

TEMPERATURE RANGE

±40°C to +70°C

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2440D-025V32	3.9	5/32	-025	10.4	2200	31900	5500	79750	100	0.21	LX
2440D-03V32	4.7	3/16	-03	11.5	1800	26090	4400	65220	120	0.25	LX
2440D-04V32	6.3	1/4	-04	12.5	1640	23770	4100	59420	155	0.33	LX
2440D-05V32	8.0	5/16	-05	15.1	1500	21740	3750	54350	175	0.44	LX
2440N-06V30	9.7	3/8	-06	19.4	1400	20290	3500	50720	190	0.70	LX
2440N-08V30	12.8	1/2	-08	22.5	1300	18840	3250	47100	200	0.94	LX
2440N-12V30	19.6	3/4	-12	30.0	1000	14490	2500	36230	250	1.39	LX
2440N-16V30	25.0	1	-16	37.0	900	13040	2250	32610	300	1.90	LX



Type 2640D/2640N Ultra-high-pressure Hose

APPLICATIONS:

For use with petroleum or synthetic hydraulic fluids and chemicals.

Well suited for hydraulic prestress tools, test rigs and offshore oil applications.

The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Blue Polyamide
Reinforcement: 6 layers steel wire spiral
Internal: 2640D Polyoxymethylene
Internal: 2640N Polyamide

TEMPERATURE RANGE:

±40°C to +70°C

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2640D-025V32	4.0	5/32	-025	12.0	2800	40600	7000	101500	140	0.29	5X
2640D-03V32	4.8	3/16	-03	13.0	2500	36230	6250	90580	175	0.41	5X
2640D-05V32	7.9	5/16	-05	16.9	2100	30430	5250	76090	225	0.68	5X
2640N-08V32	12.7	1/2	-08	24.5	1800	26090	4500	65220	290	1.36	5X
2640N-12V32	19.0	3/4	-12	33.0	1400	20290	3500	50720	350	2.10	5X



POLYFLEX HOSE

BLACK EAGLE FAMILY + COLORGARD™

Type 2640N / 2580N

2

**MAIN FEATURES**

- COLORGARD, dual colour safety feature with extra thick cover for superior abrasion resistance.
- Polyamide-11 core tube for cleanliness
- Weight up to 27.5 kg/m
- Smaller OD than flexible pipe allows more hose per reel
- Excellent chemical resistance providing long service life in sea water

APPLICATIONS:

Flexible, lightweight, chemical resistant alternative to steel or flexible pipe. Used for high volume pumping in well service applications such as cementing chemical injection and other onshore and subsea well stimulation operations. Available in long continuous lengths (500m to 2,000m depending on size).

CONSTRUCTION:

Core tube:	PA11
Pressure reinforcement:	High strength wire
Cover:	Extra thick polyurethane cover
Colour:	ColorGard™ Safety feature (red inner, black outer cover)

TEMPERATURE RANGE:

-40°C up to +70°C
-40°F up to +158°F

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2640N-16V80	26.0	1	-16	40.0	1035*	15000*	3000	43500	400	2.90	HX		
2640N-24V80	38.1	1.1/2	-24	70.0	690*	10000*	2277	33000	500	7.20	5X		
2580N-32V80**	50.5	2	-32	84.5	690*	10000*	1725	25000	800	9.40	BL		
2640N-48V80	76.0	3	-48	130.0	690*	10000*	2330	33750	1200	27.50	5X		

NOTES:

*Maximum working pressure with safety factor less than 4:1

** 2580N-32V80 is a replacement for 2640N-32V80

POLYFLEX HOSE GOLDEN EAGLE FAMILY + COLORGARD™ Type 2640M / 2580M / 2448M



MAIN FEATURES

- COLORGARD, dual colour safety feature with extra thick cover for superior abrasion resistance.
- Fluoropolymer based.
- Weight up to 9.2 kg/m
- Smaller OD than flexible pipe allows more hose per reel
- Excellent chemical resistance providing long service life in sea water

APPLICATIONS:

Flexible, lightweight, chemical resistant alternative to steel or flexible pipe. Used for high volume pumping in well service applications with acid fluids and chemical injection and other onshore and subsea well stimulation operations. Available in long continuous lengths (500m to 2,000m depending on size).

CONSTRUCTION:

Core tube: Fluoropolymer based
Pressure reinforcement: High strength wire
Cover: Extra thick Polyurethane
Colour: ColorGard™ Safety feature (red inner, black outer cover)

TEMPERATURE RANGE:

-40°C up to +100°C, short term 125°C
-40°F up to +212°F, short term 257°F

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2640M-16V80	26.0	1	-16	40.0	690*	10000*	2300	33350	400	2.90	HX		
2640M-24V60**	38.0	1.1/2	-24	62.0	690*	10000*	2300	33350	500	6.40	5X		
2640M-24V88	38.0	1.1/2	-24	70.5	690	10000*	2300	33350	500	7.20	5X		
2448M-32V80	50.5	2	-32	82.0	345*	5000*	1380	20000	500	7.00	BL		
2448M-32V88	51.0	2	-32	80.5	345*	5000*	1380	20000	500	8.50	BL		
2580M-32V80	50.5	2	-32	84.5	690*	10000*	1725	25000	800	9.20	BL		
2580M-32V88	51.0	2	-32	84.5	690*	10000*	1725	25000	800	9.40	BL		

NOTES:

*Maximum working pressure with safety factor less than 4:1

** V60: black PVDF cover

POLYFLEX HOSE PHALCON+ COLORGARD™ Type 2440N / 2448N

2



MAIN FEATURES

- COLORGARD, dual colour safety feature with extra thick cover for superior abrasion resistance.
- Fluoropolymer- core tube for cleanliness.
- Weight up to 7 kg/m
- Smaller OD than flexible pipe allows more hose per reel
- Excellent chemical resistance providing long service life in sea water

APPLICATIONS:

Used for high volume pumping in well service applications such as chemical injection and other onshore and subsea well stimulation operations. Available in long continuous lengths.

CONSTRUCTION:

Core tube: PA11
Pressure reinforcement: High strength wire
Cover: Extra thick Polyurethane cover
Colour: ColorGard™ Safety feature (red inner, black outer cover)

TEMPERATURE RANGE:

-40°C up to +70°C
-40°F up to +159°F

# Part No											Fitting Series
	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2440N-16V80	26.0	1	-16	45.0	517	7500	2070	30000	300	3.00	*
2440N-24V80	38.0	1.1/2	-24	65.0	345	5000	1380	20000	450	4.20	*
2448N-32V80	50.5	2	-32	80.5	345	5000	1380	20000	500	8.50	BL

NOTES:

*Consult factory



Type 2240D Ultra-high-pressure Hose For Pipe-cleaning

APPLICATIONS:

Ultra-high-pressure hose for cleaning of pipes, heat exchangers, etc. in the chemical and oil industries. The hose can be used as a flexible lance with pressure over 750 bar.

The hose is available as a special hose with stainless steel wicker work for added external protection.

The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Blue Polyamide
Reinforcement: 2 layers steel wire spiral
Internal: Polyoxymethylene

TEMPERATURE RANGE:

±10°C to +70°C for water

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2240D-02V32	3.0	1/8	-02	7.0	1100	16950	2750	39875	60	0.07		TX/AX	
2240D-025V32	4.0	5/32	-025	7.7	1200	17400	3000	43500	75	0.10		TX/AX	
2240D-03V32	4.8	3/16	-03	9.5	1000	14500	2800	40580	95	0.20		TX/AX	
2240D-04V32	6.3	1/4	-04	11.5	1000	14500	2500	36230	110	0.26		TX/AX	
2240D-05V32	7.9	5/16	-05	13.3	900	13050	2250	32610	120	0.22		TX/AX	



Type 2240M Ultra-high-pressure Hose Polyflex Hose - ChemJec

APPLICATIONS:

Withstands high pressure cycles with no signs of stress cracking. Proven to handle methanol. High collapse resistance (HCR) and also providing longer service life. Extremely low permeability. Meets or exceeds the performance requirements of ISO 13628-5. Medium pressure, high temperature, low volumetric expansion hose. Excellent chemical resistance. Long length subsea umbilical hose. Available in long continuous length up to 3,000 m.

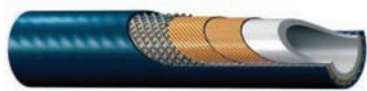
CONSTRUCTION:

Covering: Black PA12
Reinforcement: High strength wire
Internal: Coextruded core tube with fl uoropolymer inside

TEMPERATURE RANGE:

-40°C up to +100°C, short term 125°C
-40°F up to +212°F, short term 257°F

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2240M-04V30	6.4	1/4	-04	11.7	430	6250	1725	25000	120	0.17		RX	



Type 2388N Ultra-high-pressure Hose “Blueline” Water Jetting Hose

2

APPLICATIONS:

Ultra-high-pressure hose for cleaning-applications.
Particularly suitable for use in water jet cleaning in production, shipbuilding, ships, tanks, concrete work, etc.
Well suited for removing dirt, rust, paint, cement, asphalt, etc.
The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Blue Polyurethane, RAL 5001
Reinforcement: 2 layers steel wire spiral and 2 open layers steel wire spiral
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +70°C for water

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2388N-04V12W	6.3	1/4	-04	13.3	1280	18560	3200	46400	80	0.30		BS	
2388N-08V12W	12.7	1/2	-08	23.0	1100	15950	2750	39875	80	0.80		BS	



Type 2580N Ultra-high-pressure Hose “Blueline” Water Jetting Hose

APPLICATIONS:

Ultra-high-pressure hose for cleaning-applications.
Particularly suitable for use in water jet cleaning in production, shipbuilding, ships, tanks, concrete work, etc.
Well suited for removing dirt, rust, paint, cement, asphalt, etc.
The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

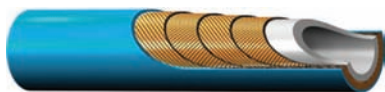
Covering: Blue Polyurethane
Reinforcement: 4 layers steel wire spiral and 2 open layers steel wire spiral
Internal: Polyamide

TEMPERATURE RANGE:

±40°C to +70°C for water

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2580N-06V12	9.5	3/8	-06	21.6	1600	23200	4000	58000	95	0.94	BL
2580N-08V12	12.7	1/2	-08	25.0	1400	20300	3500	50750	110	1.19	BL
2580N-12V12	19.0	3/4	-12	32.6	1200	17400	3000	43500	170	1.76	BL

2



Type 2440D/2440N Ultra-high-pressure Hose Water Jetting Hose

APPLICATIONS:

Ultra-high-pressure hose for cleaning-applications. Particularly suitable for use in water jet cleaning in production, shipbuilding, ships, tanks, concrete work, etc. Well suited for removing dirt, rust, paint, cement, asphalt, etc. The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Polyamide, V32=Blue, V30=Black
Reinforcement: 4 layers steel wire spiral
Internal: 2440D Polyoxymethylene
Internal: 2440N Polyamide

TEMPERATURE RANGE:

±40°C to +70°C for water

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2440D-025V32	3.9	5/32	-025	10.4	2200	31900	5500	79750	100	0.21	LX
2440D-03V32	4.7	3/16	-03	11.5	1800	26090	4400	65220	120	0.25	LX
2440D-04V32	6.3	1/4	-04	12.5	1640	23770	4100	59420	155	0.33	LX
2440D-05V32	8.0	5/16	-05	15.1	1500	21740	3750	54350	175	0.44	LX
2440N-06V30	9.7	3/8	-06	19.4	1400	20290	3500	50720	190	0.70	LX
2440N-08V30	12.8	1/2	-08	22.5	1300	18840	3250	47100	200	0.94	LX
2440N-12V30	19.6	3/4	-12	30.0	1000	14490	2500	36230	250	1.39	LX
2440N-16V30	25.0	1	-16	37.0	900	13040	2250	32610	300	1.90	LX



Type 2440M Ultra-high-pressure Hose Polyflex Hose - ChemJec

APPLICATIONS:

Withstands high pressure cycles with no signs of stress cracking. Proven to handle methanol. High collapse resistance (HCR) and also providing longer service life. Extremely low permeability. Meets or exceeds the performance requirements of ISO 13628-5. High pressure, high temperature, low volumetric expansion hose. Long length subsea umbilical hose. Excellent chemical resistance. Available in long continuous length up to 3,000 m.

CONSTRUCTION:

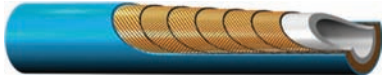
Covering: Black PA12
Reinforcement: High strength wire
Internal: Coextruded core tube with fluoropolymer inside

TEMPERATURE RANGE:

-40°C up to +100°C, short term 125°C
-40°F up to +212°F, short term 257°F

#											
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	Fitting Series
2440M-04V30	6.4	1/4	-04	13.1	865	12500	3450	50000	150	0.31	8X
2440M-05V30	8.1	5/16	-05	16.0	690	10000	2760	40000	175	0.49	LX
2440M-06V30	9.9	3/8	-06	19.5	690	10000	2760	40000	190	0.73	LX
2440M-08V30	12.9	1/2	-08	22.7	690	10000	2760	40000	200	0.94	LX
2440M-12V30	19.8	3/4	-12	30.2	630	9135	2500	36250	250	1.46	LX
2440M-16V30*	25.2	1	-16	37.2	560	8120	2250	32625	300	1.90	LX

*Product under development



Type 2640D/2640N Ultra-high-pressure Hose Water Jetting Hose

2

APPLICATIONS:

Ultra-high-pressure hose for cleaning-applications.
Particularly suitable for use in water jet cleaning in production, shipbuilding, ships, tanks, concrete work, etc.
Well suited for removing dirt, rust, paint, cement, asphalt, etc.
The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Blue Polyamide
Reinforcement: 6 layers steel wire spiral
Internal: 2640D Polyoxymethylene
Internal: 2640N Polyamide

TEMPERATURE RANGE:

÷40°C to +70°C for water

# Part No											 R	 kg/m	Fitting Series
	mm	inch	dash	mm	bar	psi	bar	psi	mm				
2640D-025V32	4.0	5/32	-025	12.0	2800	40600	7000	101500	140	0.29		HX/5X	
2640D-03V32	4.8	3/16	-03	13.0	2500	36230	6250	90580	175	0.41		HX/5X	
2640D-05V32	7.9	5/16	-05	16.9	2100	30430	5250	76090	225	0.68		HX/5X	
2640N-08V32	12.7	1/2	-08	24.5	1800	26090	4500	65220	290	1.36		HX/5X	
2640N-12V32	19.0	3/4	-12	33.0	1400	20290	3500	50720	350	2.10		HX/5X	
2640N-16V32	25.4	1	-16	40.0	1200	17390	3000	43480	400	2.90		HX/5X	

2



Type 2740D Ultra-high-pressure Hose Water Jetting Hose

APPLICATIONS:

Ultra-high-pressure hose for cleaning-applications. Particularly suitable for use in water jet cleaning in production, shipbuilding, ships, tanks, concrete work, etc. Well suited for removing dirt, rust, paint, cement, asphalt, etc. The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Red or yellow Polyamide
Reinforcement: 6 layers steel wire spiral
Internal: Polyoxymethylene

TEMPERATURE RANGE:

±40°C to +70°C for water

#													Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m			
2740D-025V16	4.0	5/32	-025	12.0	3000	43500	7800	113100	120	0.40		HX	
2740D-03V34	4.8	3/16	-03	13.2	2800	40600	7000	101500	200	0.47		HX	
2740D-05V34	7.9	5/16	-05	17.2	2500	36250	6250	90625	200	0.70		HX	
2740D-08V30	12.7	1/2	-08	27.0	2000	29000	5000	72500	300	1.85		HX	



Type 2840D Ultra-high-pressure Hose Water Jetting Hose

APPLICATIONS:

Ultra-high-pressure hose for cleaning-applications. Particularly suitable for use in water jet cleaning in production, shipbuilding, ships, tanks, concrete work, etc. Well suited for removing dirt, rust, paint, cement, asphalt, etc. Can replace the steel pipes where flexibility is required. The hose is marked with manufacturer, type of hose, working pressure and production date.

CONSTRUCTION:

Covering: Red Polyamide
Reinforcement: 8 layers steel wire spiral
Internal: Polyoxymethylene

TEMPERATURE RANGE:

±40°C to +70°C for water

#											Fitting Series
Part No	mm	inch	dash	mm	bar	psi	bar	psi	mm	kg/m	
2840D-03V34	4.8	3/16	-03	15.0	4000	58000	8000	116000	200	0.66	WX
2840D-05V34	7.9	5/16	-05	19.5	3000	43500	7000	101500	250	1.10	WX
2840D-08V30	12.7	1/2	-08	29.8	2500	36250	6250	90625	350	2.50	WX

Ratings Code

- G** -Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.
- L** -Marginal or conditional. Noticeable effects but not necessarily indicating lack of safety. Further testing suggested for specific application.
- P** -Poor or unsatisfactory. Not recommended without extensive and realistic testing.
- -Indicates that this was not tested.

2

Material Code for Hose Core Tubes		polyflex® / Parflex® Part Numbers
H	Polyester elastomer	2040H, 2370H, 515H, 518B, 518C, 550H, 558H, 55LT, 560, 590, 593, 1202LT
N	Polyamide	2010N, 2020N, 2X20N, 2040N, 2244N, 2245N, 2370N, 2440N, 2380N, 2640N, 520N, 540N, 573X, 573XL, 575X, 580N, 588N, HP, HP8
PV	Polyvinylchloride (PVC)	GPH
NC	Nylon co polymer	510A, 515A
TFE	Polytetrafluorethylene (PTFE)	2030T, 2033T, 919, 929, 939/939B, 919U
POM	Polyoxymethylene	2440D, 2640D
Material Code for Hose Covers		
U	Polyurethane	2010N, 2040N, 2040H, 2244N, 2245N, 2370H, 2370N, 2380N, 510, 830, 838, 515A, 515H, 510A, 518B, 540N, 550H, 558H, 560, 520N, 580N, 588N, 590, 593, HP, HP8, 919U
HF	Special elastomer	55LT, 1202LT
PV	Polyvinylchloride (PVC)	GPH
H	Polyester elastomer	2040N
PFX	Special elastomer	518C
N	Polyamide	2010N, 2020N, 2X20N, 2440D, 2440N, 2640D, 2245N, 2244N
Material Code for Sealing Components		
V	FKM O-rings	

Notes on the Chemical Resistance Table

- (1) The fluid resistance tables are simplified rating tabulations based on immersion tests at 24° C. Higher temperatures tend to reduce ratings. **Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin, no performance guarantee is expressed or implied.** The indications do not imply any compliance with standards and regulations and do not refer to possible changes of colour, taste or smell. For food and drinking water specially approved materials have to be used. For fluids not listed or for advice on particular applications, please consult Parker Hannifin GmbH, Polyflex Division in Hüttenfeld, Germany.
- (2) Hose applications for these fluids must take into account legal and insurance regulations. The chemical resistance indicated does not express or imply approval by certain institutions.
- (3) Satisfactory at some concentrations and temperatures, unsatisfactory at others.
- (4) For gas applications, the cover should be pin-pricked and the pressure must not be released quickly. Special safety guard accessories are to be used to prevent damage or personal injury in the event of failure.
- (5) Chemical resistance does not imply low permeation rates. Please consult Parker Hannifin for a recommendation for your specific requirements
- (6) The indication of chemical resistance does not imply any special food compatibility; it refers only to the chemical resistance of the material.
- (7) Chemical resistance does not imply acceptability for use in airless paintspray applications. These applications require a special, electrically conductive hose.

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Acetaldehyde	G	L	L	P	–	L	P	L	G	G	G	–
Acetic Acid Glacial	L	L	L	G	P	G	L	L	L	L	G	–
Acetone	L	G	P	P	G	P	P	P	L	G	G	L
Acetylene	–	–	–	–	–	–	–	–	–	–	–	–
Air (4)	G	G	G	G	G	G	G	G	G	G	G	G
Ammonium Chloride	G	P	G	G	P	G	G	G	G	L	G	–
Ammonium Hydroxide	L	G	P	L	–	G	G	P	L	G	G	–
Anhydrous Ammonia	P	P	P	P	P	P	P	P	P	–	P	–
Aniline	P	P	P	P	P	L	P	P	P	G	G	–
Animal Oils (6)	G	G	G	G	G	P	P	G	G	–	G	–
Aromatic Hydrocarbons	L	G	L	P	G	P	–	L	L	–	G	–
Asphalt	G	G	G	G	G	L	L	G	G	L	G	–
Baygon (insecticide)	L	G	P	–	–	–	–	P	L	–	G	–
Beer	G	G	G	G	–	G	G	G	G	G	G	–
Benzene	L	G	L	P	L	P	P	L	L	G	G	–
Brake Fluid (DOT #3)	–	G	P	P	–	P	P	P	–	–	G	L
Butane (2) (4)	G	G	L	L	P	L	P	L	G	–	–	–
Butter (6)	G	G	G	G	–	G	G	G	G	–	G	–
Calcium Chloride	G	–	G	L	–	G	G	G	G	G	G	–
Carbon Dioxide (4)	G	G	G	G	G	G	G	G	G	–	–	–
Carbon Monoxide (4)	G	–	G	G	–	L	–	G	G	–	–	–
Carbon Tetrachloride	L	G	P	L	G	P	P	P	L	G	G	–
Castor Oil	G	L	L	G	L	P	P	L	G	–	G	–
Chlordane (insecticide)	L	G	P	–	–	–	–	P	L	–	–	–
Chlorinated Hydrocarbon Base Fluids	L	G	L	P	–	–	–	L	L	–	G	–
Chlorinated Petroleum Oil	G	G	L	–	L	–	–	L	G	–	–	–
Chlorinated Solvents	P	–	P	L	–	L	L	P	P	–	G	–
Chlorine, Gaseous, Dry	P	P	P	G	P	L	P	P	P	–	–	–
Chloroform	P	P	P	P	P	P	P	P	P	G	G	–
Chromic Acid	P	–	P	G	P	–	L	P	P	L	G	–
Citric Acid Solutions	G	G	L	G	G	G	G	L	G	G	G	–
Crude Petroleum Oil	G	G	G	G	G	P	P	G	G	–	G	G
Cyclohexane (2)	G	G	G	–	–	P	P	G	G	G	G	–
Cygon (insecticide)	L	G	P	–	–	–	–	P	L	–	–	–
Diazin (insecticide)	L	G	P	–	–	–	–	P	L	–	–	–
Diesel Fuel (2)	G	G	G	L	G	P	P	G	G	–	G	G
Diester Oils	L	G	P	P	–	P	P	P	L	–	G	–
Enamels	G	G	G	L	–	L	L	G	G	–	G	–
Ethanol (6)	G	G	L	L	L	G	G	L	G	–	G	G
Ethers	L	G	P	L	G	L	P	P	L	G	G	P
Ethylene Glycol	G	G	L	G	G	G	G	L	G	G	G	G
Ethylene Oxide	G	G	L	P	–	L	L	L	G	–	–	–
Fatty Acids	G	G	–	G	G	L	L	–	G	G	G	–
Formaldehyde	L	L	P	L	L	G	L	P	L	G	G	–
Formic Acid J	P	P	P	G	P	G	G	P	P	G	G	–

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Freon 12 (5)	P	G	L	G	G	L	—	L	P	—	—	—
Freon 22 (5)	P	G	L	G	G	L	—	L	P	—	—	—
Fruit Juices	G	G	G	G	—	G	G	G	G	—	G	—
Fuel Oil (2)	G	G	L	L	G	P	P	L	G	G	G	G
Gas (Oil) (2)	G	G	G	G	G	P	P	G	G	—	G	—
Gasoline	G	G	—	P	G	P	P	—	G	G	G	—
Glue	—	—	—	—	—	—	—	—	—	—	—	—
Glycerine	G	G	L	G	G	G	G	L	G	G	G	—
Glycols (to 1350 °F)	G	G	L	G	G	—	—	L	G	G	G	G
Grease (petroleum base)	G	G	G	G	G	L	L	G	G	—	G	G
Heptachlor (insecticide)	L	G	P	L	—	P	P	P	L	—	G	—
Hexane (2)	G	G	G	L	G	P	P	G	G	G	G	—
Houghto Safe-1000 Series (phosphate esters)	L	G	P	G	G	P	P	P	L	—	G	—
Houghto Safe-600 Series (hydraulic fluid)	G	G	L	G	G	G	L	L	G	—	G	—
Hydraulic Fluid (petroleum base)	G	G	G	G	G	L	L	G	G	L	G	G
Hydraulic Fluid (phosphate ester base)	L	G	L	L	G	P	P	P	L	—	G	—
Hydraulic Fluid (water glycol base)	G	G	G	L	G	—	—	G	G	—	G	—
Hydraulic Oil (petroleum base)	G	G	G	G	G	L	P	G	G	L	G	G
Hydrochloric Acid	P	L	P	L	P	L	P	P	P	G	G	—
Hydrofluoric Acid	P	P	P	L	P	L	P	P	P	G	G	—
Hydrogen, Gaseous (2) (4) (5)	G	G	G	G	G	G	G	G	G	—	—	—
Hydrolube (hydraulic fluid/water glycol base)	G	G	L	G	G	G	G	L	G	—	G	—
IRUS 902 (hydraulic fluid/water-oil emulsion)	G	G	G	G	G	L	P	G	G	—	G	—
Isocyanates (2)	L	L	L	P	—	L	P	L	L	—	G	—
Isooctane (2)	G	G	G	L	G	L	P	L	G	G	G	—
Isopropyl Alcohol	G	G	L	L	G	G	L	L	G	G	G	—
Kerosene (2)	G	G	L	L	G	L	P	P	G	G	G	—
Ketones	L	G	P	P	G	G	P	P	L	G	G	—
Lacquer Solvents	L	G	P	P	—	L	—	P	L	L	G	—
Lactic Acid	P	G	P	G	G	G	G	P	P	G	G	—
Lime (calcium oxide)	G	G	G	G	—	G	G	G	G	G	G	—
Lindol (hydraulic fluid/phosphate esters)	L	G	P	—	—	—	—	P	L	—	G	—
Linseed Oil	G	G	G	L	G	L	P	G	G	G	G	G
LP-Gas	—	—	—	—	—	—	—	—	—	—	—	—
Lubricating Oils (diester base)	L	G	P	—	G	—	—	P	L	—	G	—
Lubricating Oils (petroleum base)	G	G	G	G	G	L	P	G	G	G	G	G
Magnesium Hydroxide	L	G	L	G	—	G	G	L	L	G	G	—
Magnesium Salts	—	G	G	G	—	G	—	G	—	—	G	—
Malathion (insecticide)	L	G	P	—	—	—	—	P	L	—	G	—
Mercury	G	G	G	G	G	G	G	G	G	G	G	—
Meropa Oil (sulphur base)	G	G	—	—	—	—	—	—	—	—	G	—

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Methane	—	—	—	—	—	—	—	—	—	—	—	—
Methanol	G	G	P	P	G	L	P	P	G	—	G	—
Methoxychlor (insecticide)	L	G	P	—	—	—	—	P	L	—	G	—
Methyl Alcohol (6)	G	G	P	P	G	L	P	P	G	G	G	G
Methyl Ethyl Ketone (MEK)	L	G	P	P	G	G	L	P	L	G	G	L
Methyl Ethyl Ketone Peroxide (MEKP)	—	L	P	—	—	—	—	P	—	—	G	—
Methyl Isobutyl Ketone (MIBK)	L	G	P	P	G	L	P	P	L	G	G	—
Methylene Chloride	P	L	P	L	P	L	P	P	P	G	G	P
Milk (6)	G	G	G	G	—	G	G	G	G	G	G	—
Mineral Oil	G	G	G	G	G	L	P	G	G	G	G	G
Mineral Spirits	P	—	L	P	—	—	—	L	P	—	G	—
Motor Oils	G	G	G	G	G	—	—	G	G	G	G	—
Naphta	L	G	P	P	G	P	P	P	L	G	G	G
Natural Gas (4)	—	—	—	—	—	—	—	—	—	—	—	—
Nitric Acid	P	P	P	L	P	P	P	P	P	L	G	—
Nitrobenzene	P	G	P	P	G	P	P	P	P	G	G	—
Nitrogen, Gaseous (4) (5)	G	G	G	G	G	G	G	G	G	G	G	—
Nitrous Oxide	—	L	—	G	—	L	—	G	—	—	—	—
Oil (SAE)	G	G	G	G	G	L	L	G	G	—	G	G
Oil of Turpentine	G	G	P	G	G	P	P	P	G	—	G	—
Oleic Acid	G	G	G	L	G	L	L	G	G	G	G	—
OS 45 Type 3 Hydraulic Fluid (silicate esters)	L	G	L	P	—	P	P	L	L	—	—	—
Oxygen, Gaseous (4) (5) (6)	G	G	G	G	G	G	G	G	G	G	G	—
Ozone	L	P	L	G	P	L	G	P	L	G	G	—
Paint (Oil Base) (7)	G	G	G	P	—	L	P	G	G	—	G	—
Paint Solvents (Oil base)	L	G	L	P	—	P	P	L	L	—	G	—
Pentane (2)	G	G	L	L	—	P	P	L	G	G	G	—
Perchloric Acid	P	P	P	L	P	P	P	P	P	L	G	—
Perchloroethylene	P	P	P	L	P	P	P	P	P	—	G	L
Petroleum Ether	—	—	—	P	—	P	P	—	—	—	—	—
Petroleum Oils	G	G	G	G	G	L	P	G	G	—	G	—
Phenols	P	P	P	L	P	P	P	P	P	—	G	—
Phosphate Esters (above 135 °F)	P	G	P	P	—	P	P	P	L	—	G	—
Phosphate Esters (to 135 °F)	G	G	P	P	G	P	P	P	G	—	G	—
Polyol Esters	L	G	P	P	—	—	—	P	L	—	G	—
Potassium Hydroxide, 50%	P	P	P	L	—	L	L	P	P	G	G	—
Propane (4) (5)	—	—	—	—	—	—	—	—	—	—	—	—
Propylene Glycol	—	—	G	G	—	G	L	—	—	G	G	—
Pydraul 312C, 625 (to 135 °F)	P	G	P	P	G	P	P	P	G	—	G	—
Pydraul F-9, 150, 160 (to 135 °F)	G	G	P	P	G	P	P	P	G	—	G	—
Quintolubric 822 Fluid	—	G	G	—	—	—	—	—	—	—	G	—
Salt Water	—	—	—	—	—	—	—	—	—	G	G	—
Sevin (insecticides in water)	G	G	G	—	—	—	—	G	G	—	G	—
Silicone Greases	G	G	G	G	G	—	—	G	G	—	G	—

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Silicone Oils	G	G	G	G	G	–	–	G	G	–	G	–
Skydrol 500 & 7000	L	G	P	P	G	P	P	P	L	G	G	–
Soap Solutions	G	G	G	G	G	G	G	G	G	G	G	–
Soda Water	G	G	G	G	G	–	–	G	G	–	G	–
Sodium Borate	G	G	G	G	G	G	G	G	G	G	G	–
Sodium Carbonate	–	–	–	–	–	–	–	–	–	–	–	–
Sodium Chloride Solutions	G	G	G	G	–	G	–	G	G	G	G	–
Sodium Hydroxide, 50%	L	P	P	L	P	L	L	P	L	G	G	–
Sodium Hypochloride	L	P	P	L	–	–	–	P	L	G	G	–
Steam	P	P	P	P	P	P	P	P	P	G	G	–
Stoddard Solvent	P	G	P	L	G	P	P	P	P	G	G	–
Straight Synthetic Oils (phosphate esters)	L	G	P	P	G	–	–	P	L	–	G	–
Sulphur	G	G	G	G	–	L	G	G	G	G	G	–
Sulphur Dioxide	P	L	L	L	–	P	–	L	P	G	G	–
Sulphur Hexafluoride Gas (4) (5)	G	G	G	G	–	G	–	G	G	–	G	–
Sulphuric Acid	P	P	P	–	P	P	P	P	P	–	G	–
Toluol, Toluene	L	G	L	P	G	P	P	P	L	G	G	G
Transmission Fluid	G	G	G	P	G	–	–	G	G	–	G	–
Trichlorethylene	P	L	P	L	G	P	P	P	P	G	G	L
Trisodium Phosphate Solutions	L	G	P	G	G	G	G	P	L	G	G	–
Turpentine	G	G	L	L	G	P	P	P	G	G	G	–
Ucon (hydraulic fluid/water glycol base)	G	G	L	G	G	–	–	L	G	–	G	–
Varnish	G	G	G	P	G	G	L	G	G	–	G	G
Vinegar (6)	L	G	L	G	G	G	G	L	L	G	G	–
Water (above 60 °C) (6)	P	G	P	L	–	P	P	P	P	L	G	–
Water (to 60 °C) (6)	G	G	G	G	G	G	G	L	G	G	G	G
Water Glycols (above 60 °C)	P	G	P	L	–	P	P	P	P	–	G	–
Water Glycols (to 60 °C)	G	G	L	G	G	L	L	L	G	–	G	–
Water in oil Emulsions (above 60 °C)	P	G	P	L	–	–	–	P	P	–	G	–
Water in oil Emulsions (to 60 °C)	G	G	L	G	G	–	–	L	G	–	G	G
Whiskey, Wines (6)	G	G	L	G	G	G	G	G	G	G	G	–
Wood Oils	G	G	L	G	G	–	–	G	G	–	G	G
Xylene	L	G	P	P	G	P	P	P	L	G	G	G
Zinc Chloride	G	G	G	G	P	G	G	G	G	G	G	–

