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MECHANICAL TYPE

The EuropCorr® two inch high pressure mechanical retrieval tool is specially designed for safe and easy installation and removal of various monitoring devices from pipelines and vessels under line pressure through an EuropCorr® mechanical access fitting assembly. The EuropCorr® retrieval tool must be used with the EuropCorr® service valve.

The main components of the EuropCorr® retrieval tool are:

- Outer barrel
- Inner barrel
- Mandrel rod
- Thread adapter
- Socket adapter assembly

Sealing system is achieved by the use of Viton o-rings, PTFE back up rings and Graphite impregnated PTFE seals.

The EuropCorr® retrieval tool works on the principle of balanced pressure. This safety feature ensures that in the event of sudden pressure release from the system, the retriever will not telescope. The resulting balanced pressure allows the tool to work at full operating pressure up to 6000 PSI (420 Bar), the maximum temperature rating is 450 °F (232°C)

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HYDRAULIC TYPE

The EuropCorr® two inch system high pressure hydraulic retrieval tool works on the hydraulic principle. Unlike the mechanical retrieval tool the hydraulic tool has no external moving parts which in a certain way makes the tool much safer during retrieval operations, reduced risk for accidents and injuries. Another advantage is the size and weight of the tool which almost half the size and weight of the mechanical tool, this advantage allows the access of a monitoring system at location where space is very limited. Less than half the discharge of traditional systems, improved safety in sour service.

The EuropCorr® hydraulic retrieval tool allows the installation and removal of various monitoring devices from pipelines and vessels under full operational pressure through a EuropCorr® hydraulic access fitting. The hydraulic access system has no threads inside the access fitting, the plug is kept in position by locking pins and a heavy duty cover. This feature eliminates thread damage and galling problems (e.g. seized plugs) frequently encountered when using mechanical systems. Can be used on existing, traditional 2" access fitting system by means of a Hydraulic Access Fitting Adapter.

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MECHANICAL RETRIEVAL TOOL KIT



HYDRAULIC RETRIEVAL TOOL KIT



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EuropCorr® Two Inch System

High Pressure Retrieval Tool and Service Valve



A bleed valve and pressure gauge are incorporated in the retrieval tool allowing to bleed off the line products and to determine the pressure inside the tool.

The EuropCorr® hydraulic retrieval tool must be used with EuropCorr® service valve and with either a hand pump or air pump. Air pump is recommended, to operate the air pump 85 psi (5,8 bar) air pressure and a minimum of 12 cfm (340 l/min) is required. Hand pump for use when pressurise air is not available. The EuropCorr® hydraulic retrieval tool kit is supplied with service valve, hydraulic pump, hoses and other accessories such as steel brush and brass hammer contained in a sturdy field service box.

The service valve comes in single or double isolation versions, one of the safety features of service valve is its two bleed valve design. One valve bleeds to atmosphere and supplements the bleed valve on the retriever, ensuring that the pressure within the assembly may be released. The second bleed valve bypasses the service valve's ball, which allows pressure in the retriever assembly to build up smoothly, preventing the assembly from being unnecessarily shocked. This also allows the ball of the valve to be opened easily, since the valve seats are no longer under load.

The service valve provides a temporary seal at the access point while the monitoring device is removed for inspection, maintenance or service. An optional diverter hose is available so that the fluid within the assembly may be contained in a tank (as a means of sampling) or released elsewhere. The diverter hose may be connected to either the retriever or the service valve.

Depending on the length of monitoring equipment being installed, one retriever and service valve may be used to service many access fitting locations.

Note that single and double isolation service valves require different Retrieval tool length. See table at next page.

Retrievers and service valves are hydro tested after assembly to ensure proper field performance.

The main components of mechanical/hydraulic retriever and services valve are manufactured from stainless steel, and they receive a chroming treatment for resistance to mechanical/corrosion damage and to ensure many years of reliable service.

Standard pressure rating up to 6000 PSI (420 Ba), 10000 PSI (690 Bar) is also available the maximum temperature rating is 450 °F (232°C)

Material selection meets NACE MRO175/ISO 15156

For EU based users the equipment conforms to Pressure Equipment Directive (PED).

ORDERING INFORMATION:

Hydraulic Retrieval Tool for Single Isolation Valve			Hydraulic Retrieval Tool for Double Isolation Valve		
Probe length (mm)	Part No.	Tool Length (mm)	Probe length (mm)	Part No.	Tool Length (mm)
130	171001	506	230	172001	717
200	171002	611	300	172002	822
300	171003	761	400	172003	972
400	171004	911	500	172004	1122
500	171005	1061	600	172005	1272
600	171006	1211	700	172006	1422
700	171007	1361	800	172007	1572
800	171008	1511	900	172008	1722
900	171009	1661	1000	172009	1872
1000	171010	1811	1100	172010	2022

Mechanical Retrieval Tool for Single Isolation Valve				Mechanical Retrieval Tool for Double Isolation Valve			
Probe length (mm)	Part No.	Length colapsed (mm)	Length extended (mm)	Probe length (mm)	Part No.	Length colapsed (mm)	Length extended (mm)
100	271007	805.7	1086.1	100	272001	976.5	1171.5
200	271008	896.7	1281.5	200	272002	1067.5	1366.9
300	271009	996.7	1476.9	300	272003	1167.5	1562.3
400	271010	1096.7	1672.3	400	272004	1267.5	1757.7
500	271011	1196.7	1867.7	500	272005	1367.5	1953.1
600	271012	1296.7	2063.1	600	272006	1467.5	2148.5
700	271013	1396.7	2258.5	700	272007	1567.5	2343.9
800	271014	1496.7	2453.9	800	272008	1667.5	2539.3
900	271015	1596.7	2649.3	900	272009	1767.5	2734.7
1000	271016	1696.7	2844.7	1000	272010	1867.5	2930.1

Description	Part no.		Weight [kg/lbs]		Material
	Hydraulic	Mechanical	Hydraulic	Mechanical	
Single isolation service valve	181001	281001	11 / 24.25	14 / 30.86	17-4PH
Double isolation service valve	182001	282001	20 / 44.09	23 / 50.70	17-4PH
Retrieval tool seal kit	173001	273030	0.2 / 0.44	0.2 / 0.44	Various
Retrieval tool repair kit	173002	273031	0.5 / 1.10	0.5 / 1.10	Various
Single isolation service valve repair kit	381002	381002	1.2 / 2.64	1.2 / 2.64	Various
Single isolation service valve seal kit	381003	381003	0.2 / 0.44	0.2 / 0.44	Various
Double isolation service valve repair kit	382002	382002	2.4 / 5.29	2.4 / 5.29	Various
Double isolation service valve seal kit	382003	382003	0.3 / 0.66	0.3 / 0.66	Various
Valve ball	383001	383001	0.8 / 1.76	0.8 / 1.76	17-4PH
Air pump	173003	n/a	10 / 22.04	n/a	Various
Hand pump	173004	n/a	16 / 35.27	n/a	Various
Hose with male quick connector / 3mt for hydraulic pump	173044	n/a	2 / 4.40	n/a	Various
Hose with female quick connector / 3mt for hydraulic pump	173045	n/a	2 / 4.40	n/a	Various

